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The predictability of theoretical knowledge of a psychomotor skill to the actual performance of that skill.

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THE PREDICTABILITY OF THEORETICAL KNOWLEDGE OF A PSYCHOMOTOR SKILL TO THE ACTUAL PERFORMANCE OF THAT SKILL

A Dissertation

by

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In writing this dissertation, the writer is indebted to a number of persons. To my committee and their enduring patience, and particularly to Mr. Russell Booth who gave unselfishly of his time and talents in the execution of this study.

Education is a process that once set in motion never ceases. Dr. Newton Gaines and George Bullock are two unique and outstanding spiritual beings that have had substantial influence on my life and deserve mentioning in this document as they set standards by which have brought me to this point in my life.

Two other individuals have had a great influence on my life and in making this document possible; I shall only refer to them as William and Sieger.

Finally, to my wife, La Nelma and our children, there are no words that can adequately express my feelings for their personal sacrifice and steadfast loyalty.

Oh yes, and to Ernie for the word "perusal."

TABLE OF CONTENTS

LIST OF CHARTS AND GRAPHS

HISTOGRAMS

HISTOGRAMS

CHAPTER I

THE PROBLEM

Orientation

> If you don't know where you are going you might end up someplace else.[9]

In 1965, Stanford University received the largest grant ever given by the U.S.O.E. Division of Vocational Technical Education. The Project was titled "Flexibility for Vocational Education through Computer Scheduling." One of the objectives of this project was to "measure the extent of use of Performance Criteria in the areas of Vocational Instruction." This particular objective soon became one of the primary focuses of the project. Preliminary investigations indicated that Vocational Education was far ahead of most areas of Education in possessing many of the necessary curricular components to make a Performance Curriculum work, however, it was also discovered that Vocational Education was governed and controlled by some of the most rigid and restrictive rules and regulations found in secondary schools.

The result of Federal and State laws governing the operation of Occupational programs is that the restrictive element of time has tended to filter down the evaluation of student progress. Sometimes "time" as the primary element of achievement is more harmful than helpful. Mager[9] states that

time spent in a learning situation without some form of communication to the student of how he is doing in relation to what it is he is trying to comprehend is often a meaningless experience. CAM,[3] a program for monitoring student progress, shows that many times a student achieves performances early in the course of instruction but has to spend the "time" that he was scheduled for in the Course.

During the project work at Stanford University, national conferences were held and people knowledgeable of Vocational Education and Performance Criteria were brought together to consult and find ways of developing and implementing Performance Criteria in the various Vocational Areas. It soon became apparent to the personnel involved in this endeavor that "time" is not always a good criteria of measuring competency and it was often quoted that "if you don't know where you are going you might end up someplace else."[9]

From these early efforts of establishing Performance Criteria emerged a concept of Pre-service Teacher Education based on Performance Criteria and Instructional Alternatives. In 1968, the U.S.O.E. again funded several large projects which were to concentrate their efforts on this single concept of Performance Criteria and Instructional Alternatives (Appendix "A"). One, entitled the "Model Elementary Teacher Education Program," was located at the School of Education, University of Massachusetts, a parallel effort was applying the same concept to the training of teachers in the field of

Distributive Education.

These efforts began to show a growing need, not only to train teachers through a system of Performance Criteria and Instructional Alternatives, but to see what could be done at the primary and secondary level to implement the same system. One strategy that evolved was an Evaluation System for vocational education based upon Performance Objectives.[10] This development was initiated by Drs. Jimmie Fortune, David Berliner, and Thomas Hutchinson. The process for developing and implementing the Evaluation System was to train Vocational teachers to write Performance Objectives; to code, synthesize and compile the objectives and ultimately to derive evaluative instruments on these objectives. This study is an extension of the work initiated by Fortune, Berliner, and Hutchinson

Introduction

Vocational Education in every state is governed by Federal and State laws. Many of these laws were enacted to establish and upgrade the profession. Many of the laws, as they are not stated, have outlived their usefulness. The laws that have to do with funding, certification (both of students and teachers), and curriculum have one element that has become a restrictive factor and has hampered the improvement of vocational education. That element is the use of time in programs or activities to designate program or activity competence. Vocational programs in Massachusetts are

principally evaluated by time.[12] A program is classified as vocational and qualifies for funding only when it meets the time criteria. For example, an acceptable program in Machine Trade is one that is designed to require the student to spend the equivalent of three hours per day every week for at least three years in the presence of an experienced Machine Trade man. Also, the program requires that the instructor spend at least eight years in the trade before he can become a teacher.

In Massachusetts, the instructional program directly related to a vocational trade is divided into two segments, "related" and "shop." Written exams are frequently given in the related (theory) classroom but, other than job completion or teacher observation, there is a noticeable absence of criteria instruments and measurement techniques in the vocational shop areas. The students leave the high school with a certificate showing that they have met certification requirements in the vocation, when in reality, they have only been evaluated on their theoretical knowledge. Their practical (manipulative) skills usually have not been systematically measured.

A perusal of the current measurement literature indicated that more and more thought is being given to the establishment of meaningful performance objectives. Although this particular study did not focus its investigation on the process or content of performance objectives, it should be emphasized that before a criterion reference test is developed, valid

and realistic work performance objectives must be available.

Several questions were asked with regard to an objective before it is used as a basis for developing the criterion reference tests. For example, does the objective specify the conditions under which behavior is to be observed? Does the objective define standards the student should meet? Once these questions have been examined and the test developed satisfactorily answered them, he proceeded with the development of a criterion reference test.

This study was based upon the feasibility of deriving test instruments utilizing performance objectives. The tests were composed of criterion reference items of which one section measured a student's theoretical knowledge and the other section assessed a student's manipulative ability.

Statement of the problem

The lack of research data about performance testing has left vocational educators reluctant to implement a systematic evaluation system of performance objectives in the cognitive and psycho-motor domains. The specific problem outlined in this study was to ascertain the degree of correspondence between the performance of psycho-motor skills and the theoretical knowledge of those skills by administering performance testing to ninth grade students enrolled in machine shop courses in a Vocational School.

Generalizability and limitations of the study

The Diman Regional Vocational-Technical School was selected as the site for administering the test instruments. This limited the generalization of the results. However, this was only a pilot effort that will help to substantiate internal validity and should later be tested for external validity.

Limiting the study to one occupational area within one school will increase the efficiency of training the teachers in writing performance objectives and will not have the problem of obtaining acceptance of objectives and tests from different school populations.

Once the objectives were written and accpeted by the study team, the criterion reference tests were developed for the related (theoretical) and shop (practical) objectives. Face validity for the two sets of tests were established by the machine shop related and shop instructors who wrote the objectives and a corresponding set of instructors in a similar program in another school.

CHAPTER II

REVIEW OF RELATED RESEARCH AND LITERATURE

Introduction

Historically . . . , "There are records of the use of written examinations, about 4,000 years ago, in the schools of ancient China"[16] and "2,300 years ago, in academic subjects in Athens, complex explanations of statistical treatment of test data were discussed."[18] In order to carry an educational idea from conception to fruition takes a very long time, perhaps this is due to the power of what is familiar as opposed to that which is unfamiliar. Accountability is a concept that has risen to the forefront of Education in the 1970's. Educators are now examining various means and methods to insure accountability for accomplishing their objectives. Accountability is dependent upon evaluation which is in a primitive state itself; hence, as the latter becomes more sophisticated, progress can be anticipated in the former. The evaluation instruments that are currently available, most of which are written examinations, are limited when applied to the areas of education that concentrate on developing psycho-motor skills.

In the United States there are only five states that are using occupational competency testing in the field of Education. These tests are largely of the paper and pencil variety

with some requiring actual performance in simulated job situations. Of those tests that did contain a Performance element, the only factor judged to be excellent was currency of content.[15]

Reilly states that ". . . it appears that trade knowledge (theory) and trade performance (practical) tests are not highly correlated and that written examinations alone are a poor indicator of trade competence."[4] This conclusion is supported by Stuit who says: "Although it had been assumed that written tests sufficed to indicate what a man had learned in a service school, the evidence showed that performance tests and improved shop grades were not closely related with written test grades."[17] Both Reilly and Stuit used the words "Trade Knowledge" in the broadest sense. This is especially true of Stuit who did his major work in the Armed Services (Navy) during war time. Stuit uses the words "written test" or "performance test" to represent a series of standardized tests such as Mechanical Aptitude, Mathematical Ability.

Stuit says: "the biggest problem and the weakest point of my research is the lack of criteria of what was expected of a student to perform so valid measures could be made."[17] Because the Reilly and Stuit studies used instruments of questionable validity, their results do not necessarily apply to the relationship between carefully constructed written and performance tests. What is needed is a study based on a criterion reference test which will provide some data on the

generalizability of the Reilly and Stuit findings under conditions of measurement of specific performance objectives.

Classifying Performance Objectives

Bloom[2] identifies a classification system of three basic types (cognitive, psycho-motor, and affective) and indicates that some objectives may be classified in more than one of the categories. Harmon,[7] also identifies three basic types of performance objective behaviors (verbal, physical, and attitudinal) and indicates that some objectives do not fall in any of the three categories while others might involve two or more behaviors. When developing the measures of manipulative behavior the verbal and attitudinal behaviors which contribute to this physical performance should be taken into account with the measurement design itself. If, however, the objective requires that both task product and task process be measured it would be most appropriate to develop a combination of related theory and practical instruments.

Grouping the objectives to determine what is to be measured (process, product, or combination) will determine the way in which information is to be gathered. Wilson[19] created five subgroups of operational performance measures. Three discussed below are directly applicable to school setting: (a) tangible product measures, (b) measures of specific behavior elements, and (c) gross performance measures.

Tangible product measures

Vocational education is an area that applies theoretical knowledge to manipulative skill development. Any objective that can be evaluated by the characteristics of task, job or operation that a student actually completes could be measured as a tangible product. Most areas of Vocational Education would have many objectives in this category. For example, the making of a vise, or Milling Gear, would illustrate this type of objective in a machine shop. In a Carpentry course the production of a hutch or dining room table would be further examples of Tangible Products against which objectives could be measured.

Tangible product measures have some limitations. The most apparent is the inability to obtain an immediate judgment of the process which might affect the quality of a product over an extended period of time, such as hair falling out from an over processed hair-do, or a Milling cutter breaking because it was hardened too much. Even more important could be that students did not observe certain safety rules. These problems could not be apparent in an initial finished product evaluation, but could be discovered if certain observations were made of the process used to produce the product.

Measures of specific behavior elements

The focus of the second type of measure, measures of specific behavior elements, is upon the process. A task or

job analysis would ascertain certain skills that a student must be competent to perform and an order of performance of those competencies. The use of check lists makes it possible to incorporate a considerable amount of objectivity into this type of instrument. A weakness of this procedure is that the observer using the check list may be asked to make many subjective judgments and in the case the instrument lacks standardization of the techniques of evaluating the performance. In this situation as the observer changes so does the instrument. Teacher observations, or judging horses, diving, or beauty contests, are some extreme examples of measures of specific behavior elements.

Gross performance measures

The third applicable category of operational performance measure is termed gross performance measures. In this situation the term "gross" indicates a very crude measure of a performance objective. For example, a new teacher has higher grade averages on her students' report cards than the teacher last year. High grades, although easily assessed, are only an indirect measure of the teacher's performance. There are many intervening variables that could cause high grade point averages: for example, better students, new resource materials, different teaching methods, lower standards of grading, or located in a different room with better lighting, ventilation and other environmental influences. It is problems such as

this that lead to the lack of validity of this kind of measure.

Criterion reference tests

> A proficiency test may be considered valid if it discriminates between the proficient and non-proficient in a given skill, or better still, if it successfully discriminates among individuals with various degrees of the skill. While an aptitude test may have an indefinite number of validities, depending on the criteria which it predicts with varying degrees of success, a valid proficiency test must measure what it purports to measure. No other concept of validity is applicable; . . .[4]

> A proficiency test, like all other tests, can be defined as a stimulus situation which has been constructed to evoke the particular kinds of behavior to be measured or assessed. In one sense, then, the validity of a test instrument is reflected in the degree to which the behaviors evoked provide a means for consistently differentiating among individuals according to their performance. In particular, a proficiency test can be considered valid if it discriminates among individuals presumed to range from no proficiency to high proficiency. A valid test, then, is established by demonstrating that the test scores reflect differences in skill levels of the performance being assessed.[6]

One of the difficulties in the Vocational Shop is that the vast majority of Vocational training programs have no way of duplicating the ultimate criterion of the training program: occupational entry. The vocational shop or laboratory tries to simulate the actual job condition. Problems arise with the Vocational school trying to keep up with technological changes. Also, one can in no way predict with any degree of certainty the actual job a student will enter.

> The proficiency test used at the completion of a training course . . . may establish the degree to which an individual has acquired knowledge about his job or has mastered the necessary skills. It does not demonstrate that the individual will perform effectively in the job situation. An individual with generally proficient skills may turn out to be an occupational failure . . .[6]

Measurement of a student in a Vocational shop should be focused upon an objective or set of objectives. Can a student perform a specific task within accepted performance standards? An instrument designed to answer such a question usually does not predict any consequent behavior. However, attempts must be made to collect data which do predict behavior on the actual occupational choice.

Valid work performance tests should be developed from a description of the behavioral outcomes to be measured. The derivation of performance objectives provides the criteria upon which the measurement instrument can evolve.

Performance objectives as a rule are not formulated in terms of a singular unique behavior, but as a more generalized complex class of behaviors. The concept of sampling a domain of performance behaviors is relevant even if taken within an instructional situation where performance objectives provide an adequate focus for the instruction.[13]

Assessment of validity

A common method of assessing the content validity of a performance is referred to by DuBois, et al., as ". . . validi-

ty by direct judgment."[4] The general process is to select a panel of experts to judge (1) whether the behaviors measured are an adequate representation of the domain of interest, and (2) whether the behaviors measured will discriminate between the skilled and the unskilled in the performance domain.[1]

A less common method but one given strong support is suggested by Nunnally.[13] Content validity is the extent to which the measured performance "looks like" it measures the relevant domain of performance behaviors. McGuire and Babbott[11] have commented on the importance of "face validity" as a source of improving the content validity of performance measures. Such a comment should be of importance to the vocational educator since their work dealt with simulation techniques in measuring problem-solving skills.

Although Vocational programs may considerably lack in simulating the actual world of work (the variety of jobs and the technological advances), the further one gets from the existing performance situation in establishing the measurement conditions the less relevant the task appears to the student.

Reliability

"Reliability constitutes the degree to which an instrument measures consistently what it does measure."[8] Glaser and Klaus,[6] have grouped measurement errors that could affect the reliability of a work performance measure. (1) environment

influences, (2) situational influences, (3) test instrumentation, (4) sampling, (5) behavior complexity, and (6) examinee reactive effects. Each of these six groups of measurement errors is discussed in Chapter III.

CHAPTER III

METHODOLOGY OF THE STUDY

Although the design of this study encompasses a fairly short duration of time, there were many developments as described in the preceding chapters that gave the investigator the prerequisite skills and information which made this particular study possible. This chapter describes the procedures that were followed which had a direct relationship to the design of this study.

Since it was essential to have a school and faculty that was receptive to the idea of evaluating vocational programs by performance objectives, a quick survey was done to identify a cross-section of vocational schools that would participate in such an evaluation project. Following the selection of six schools to participate in this pilot project in April, 1970, a Conference was held, at which each school sent two Vocational Instructors. These 12 instructors were trained for four days in the derivation and wording of Performance Objectives. Subsequently, one of the six participating schools, Diman Regional Vocational-Technical School, located in Fall River, Massachusetts, was selected as the site at which the data would be gathered for this study.

After reviewing the research and designing the proposed

study, it was explained in detail to the Superintendent-Director of Diman Regional Vocational-Technical School. He gave his consent to use his school as a base for gathering the necessary data and also gave many helpful suggestions concerning his impressions of the study. The school guidance counselor was consulted and the decision was made to list the student's chronological age and his raw scores of intelligence quotient, space relations, and mechanical reasoning. It was anticipated that this historical data might provide added information when compared to the student's test scores.

Because of early efforts of Mr. Russell Booth to construct an evaluation instrument to test the completion of the machine shop objectives, the machine shop course was chosen as the area in which to gather the necessary data for this study. After consultation with Mr. Russell Booth and the other machine shop instructors, the freshman class was selected as the test group. The freshman teachers for the machine shop course were then asked to write performance objectives for the engine lathe at the freshman level.

After editing and revising the objectives so that they were acceptable to all parties (Related Teacher, Lab Teacher, and Principal Investigator) the objectives were compared and any objective in the lab that did not correspond to an objective in the Related area was eliminated and vice versa. The resulting objectives were then used as a basis for deriving the written and the performance test instruments. Mr. Russell

Booth was asked to design a job that would contain all the lathe operations that a freshman student would be required to know how to perform at the end of his freshman year (Appendix E). The resulting blueprint was then compared with the machine shop objectives to see if there were any skills that were not represented. Each operation was then marked on the blueprint for future performance checks and a chart was prepared so that the amount of time to perform each operation could be recorded by the individual student.

The machine shop related textbook and other resource materials were used in developing the written exam that would test the students' theoretical knowledge. Test questions were written so as to refer to one or more machine shop objectives. This was done so as to have each objective represented by more than one test item. Through consultation with the machine shop instructors, the written instrument was revised until acceptable by the instructors (Appendix D). The final written instrument was composed of fifty-eight multiple choice items, fifty-six pictorial identification items, eighteen measurement items and seven matching items. The objectives and instruments were taken to machine shop instructors in another vocational school and face validity was established.

Measurement Errors

When developing the instruments and designing a procedure of Administration, sources of measurement error were considered. To lessen the effects of any adverse environmental conditions or situationed influences, it was decided to make the exams as close as possible to routine machine shop procedures. No advance notices were given of the exams and they were administered to all students at the same time. The job given to them to perform in the machine shop was expected to be performed on the engine lathe that the students were used to working on every day. The theoretical test used the same type of answering sheet that the students had used all year. These procedures should have eliminated most measurement errors that might result from environment conditions, situational influences, or test instrumentation.

To eliminate the element of chance in measuring specific behaviors the written instrument contained several questions about each performance objective. The lab test was made so that whenever possible the student had to repeat a skill so as to check his proficiency and to have a wide-range score to maximize the potential variability. This procedure was designed so as to eliminate the measurement error in the sampling process.

A fifth source of measurement error dealt with was the

complexity of the behavior which was being evaluated. As Glaser and Klaus indicate:

> If the behavior being measured involves many dimensions of performance, the items included in the test instrument will necessarily be heterogeneous. Since it is possible that an individual's proficiency level may fluctuate considerably from one dimension to the next, each component in each sense represents a somewhat different test.

When consulting with the machine shop instructors about the performance objectives (the accomplishment of which were to reflect the proficiency of the students), they were concerned that the element of time was not reflected in the objectives. To help gather information on this item, a chart was designed to register the time spent on each operation and a composite time. In this manner, those students could be accounted for that did excellent performance but took an extra long time to do it.

The only source of measurement that was unable to be dealt with was reactive effects. There was no way to account for students that might be unusually tired that day or sick or just lacked motivation to do a good job on the test.

In the sample group there were thirty-one students whose ages ranged from thirteen years to sixteen years and three months. They were all enrolled in the machine shop course and were divided into two groups. While one group was in the related classroom and taking its academic subjects the other group was in the machine shop lab. After two weeks the two groups rotated and the group that was in the lab went for

classroom instruction and the group that was in the classroom went to the lab.

The instruments were administered to the two groups and then the students rotated from lab to classroom and vice versa and the tests were given again. The results of the two exams were coded and computer scored to be as objective as possible. The data was then analyzed by various means which are discussed in Chapter IV.

CHAPTER IV

ANALYSIS OF DATA

Introduction

In this chapter is presented the analysis of data in testing the hypothesis. More specifically, the task was to determine the degree of predictability of theoretical testing of a psycho-motor skill to actual performance of that skill. The hypothesis predicted that theoretical testing is a poor indicator of the manipulative ability of a person. When examining the correlations to determine if the hypothesis was correct, one would not want to find correlations above .5 for that would reflect a positive correlation between theoretical knowledge and manipulative ability.

A correlation analysis of all the variables was undertaken. These results indicated neutral correlations between -.3 to .3 in more than 75 per cent of the correlations computed. The complete correlation matrix is presented in Appendix A. The hypotheses were tested by means of the tetrachoric "r." The tetrachoric "r" was used as it is an appropriate way of estimating the correlation between two underlying variables from the dichotomous data by single test items. The scores on the test items were reduced into two categories artificially, enabling a coefficient to be obtained which is numerically equivalent to a Pearson "r" and

may be regarded as an approximation to it.

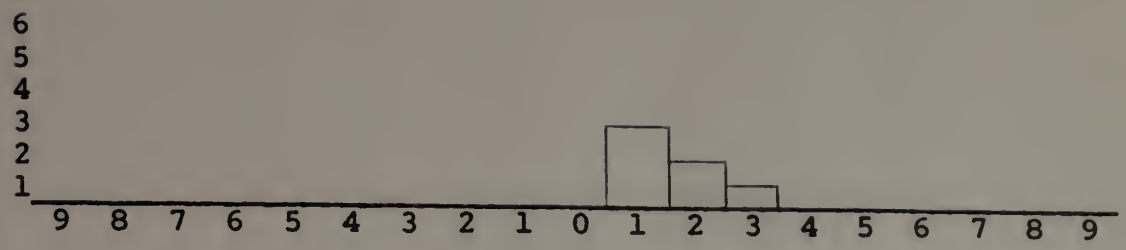
The study contained 167 variables which were divided into two instruments, the theoretical and the performance. The theoretical instrument contained 139 variables divided into three categories: pictorial identification, matching, and multiple choice questions. The performance instrument resulted in 28 variables representing operations performed on the engine lathe.

Histograms

To bring out the manner in how various sets of theoretical variables correlated with each of the 28 performance variables, a Histogram (a charting technique to show discriminate validity) was used to pictorially show the extent of correlation between individual and sets of theoretical and performance variables. On X axis is found a range scale going from left (-1.) to right (.1); on the Y axis is a scale reflecting the number of times a particular correlation was repeated.

The correlations were grouped so that any correlation that fell between, say, a .150 and .250 was charted as .2. Let us say, for example, that there were six correlations and they were .118, .126, .126, .158, .175, .321; the following

histogram would be charted



Data presented in the following 28 histograms reflects the correlations of the various performance variables with their corresponding theoretical variables.

Figure A contains theoretical variables #93 and #98-#103, which reflect a student's knowledge about tool bits. The range of distribution is from -0.452 to 0.625, but the highest frequencies are from -.2 to .2, which neutralizes any positive or negative findings. The performance variables (#1 and #14) in figure A as well as B, C, and D are the only variables that contain a facing operation. The facing operation requires using a different lathe holding device than do all other variables. Theoretical variables #70 and #72 are multiple choice questions concerned with those holding devices which are reflected in figure C.

Figure B shows the histogram for the theoretical variables #1-#6, which again is the identification of the parts of a tool bit and only represents distant prerequisite knowledge.

Figure D is a histogram that reflects strong support to the hypothesis of this study. It contains performance vari-

ables #1 and #14, and it also contains the theoretical variables that were written specifically for this performance: variables #73 and #77. These two variables are multiple choice questions which are testing the student's knowledge of how to perform the facing operation.

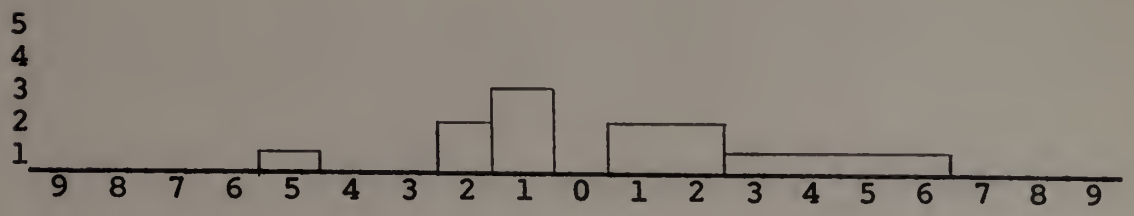


Figure A

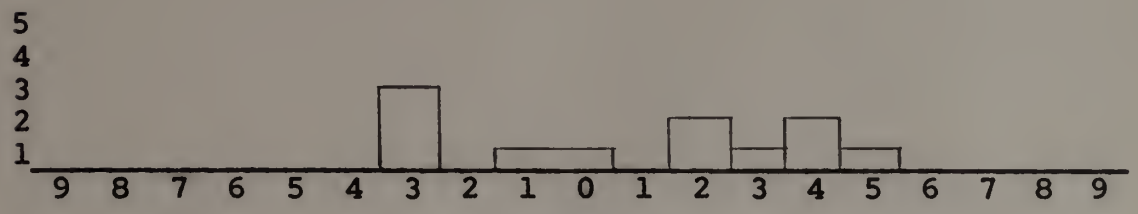


Figure B

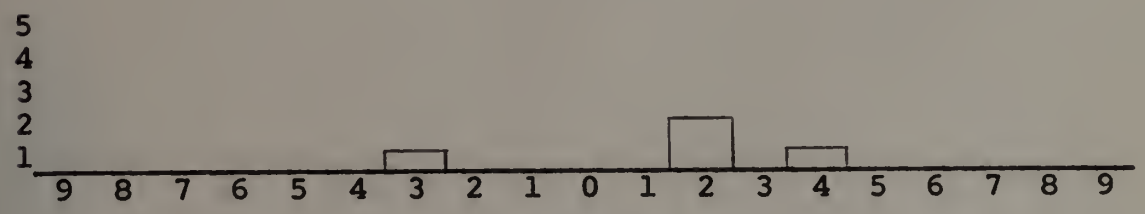


Figure C

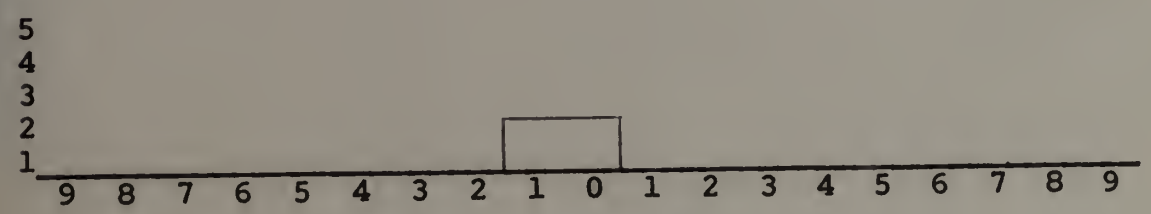


Figure D

The use of the cutoff tool is best demonstrated with performance variable #4. In figure E, theoretical variables #42, #44, #46, #75, #89, #98, #101, #102, and #103 represent multiple choice questions about necking operation and the tools necessary to perform the operation. These theoretical variables are correlated with performance variable #4. The correlations are found to lie in four groups from -0.383 to 0.247 of which the highest frequency is at .0. This set of correlations is another example which gives strong support to the study hypothesis.

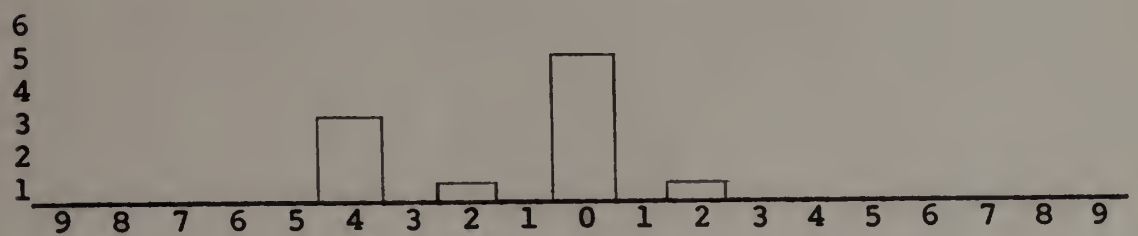


Figure E

Performance variables #2, #3, #5, #6, #7, #8, #10, #11, and #12, have a common prerequisite skill; the sharpening and use of a straight turning tool bit. They were all correlated with the theoretical variables #1-#6, which requires the identification by name of the parts of the straight turning tool bit from a pictorial representation.

The histogram in figure F shows that the correlation varies widely and somewhat evenly from -0.788 to 0.565. There are more positive than negative correlations with the

average of the correlations centered at .0.

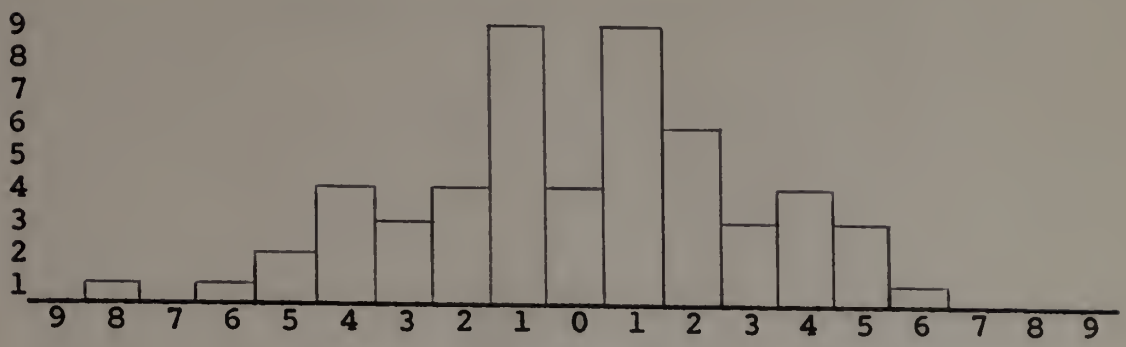


Figure F

Theoretical variables #48 through #55, #66, #77, #93, #94, #98, #101, #102, and #103 represent multiple choice questions about the operation of the engine lathe in cutting to square corners. Figure G shows the correlation of these multiple choice questions with performance variables #2, #3, #5, #7, #8, #10, #11, and #12, each of which contains the operation turning a square corner.

Although the correlations ranged from -0.878 to 0.553 there is a very high frequency distribution between 0.3 to .3 with the highest frequency at .0. This information would give strong support to the hypothesis of this study that theoretical tests are poor indicators of manipulative ability.

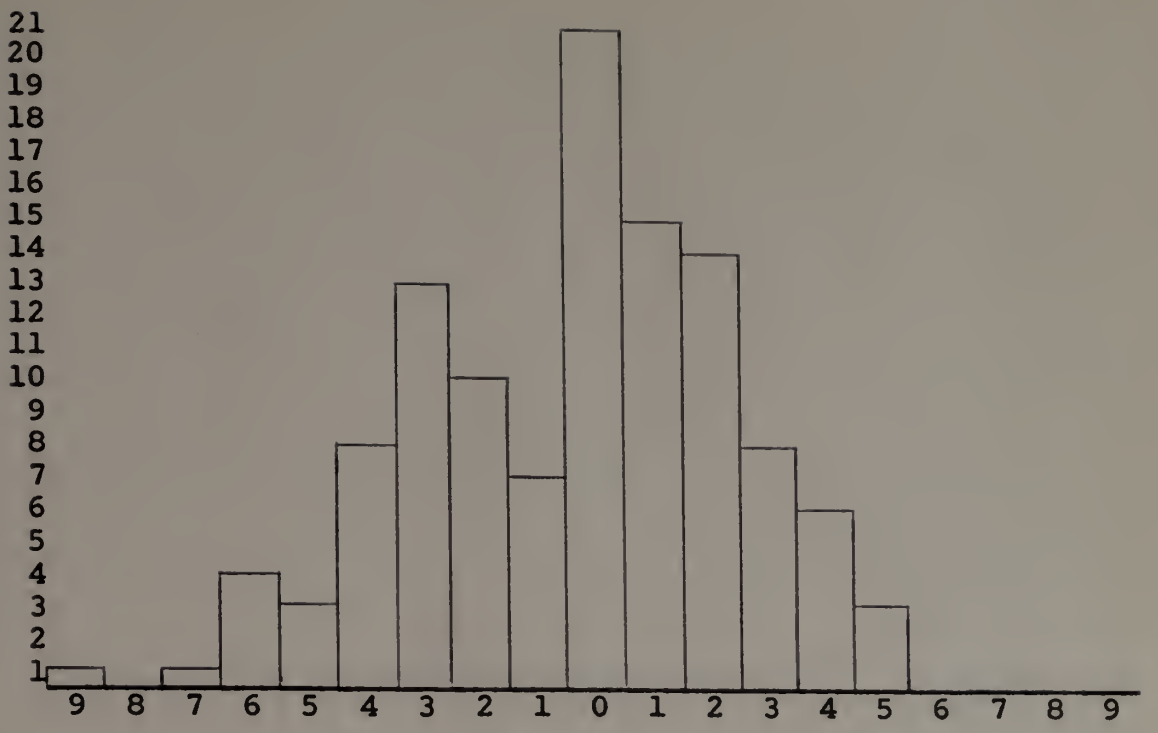


Figure G

The linear measurement variables (#124, #126, #127, and #128) when correlated with the performance variables #7, #10, and #11, show in figure H a narrowly grouped set of correlations ranging from 0.052 to 0.295 and with a high frequency at -.1.

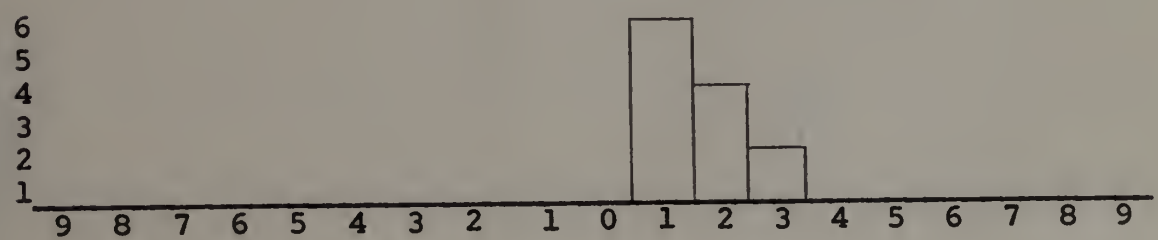


Figure H

The theoretical variables in figure I and J represent pictorial steel rule measurement problems. When variables #122-#129 were correlated with performance variables #2, #6, and #8 (which required small necking operations), the correlations were all positive ranging up to 0.783 with the highest frequency around .4. When the same theoretical variables were correlated with operations requiring a more difficult use of the steel rule, the correlations ranged from 0.194 to 0.305 with the highest frequency at -.2.

One might hypothesize from this information that while the student's theoretical knowledge remains consistent, the degree of proficiency in applying that knowledge varies dramatically.

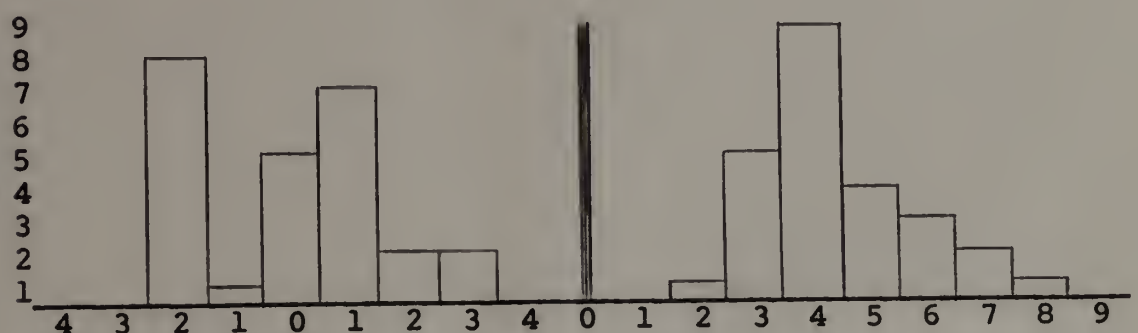


Figure I Figure J

As represented in figure D, the steel rule measurement problems which are pictorial can be a slightly positive indicator of performance. Figure K, which contains performance variables #9 and #13, reflects even in a more substantial way

the positive influence of such an instrument. There were no negative correlations with the variables #122-#129 and the highest frequency was centered on .4.

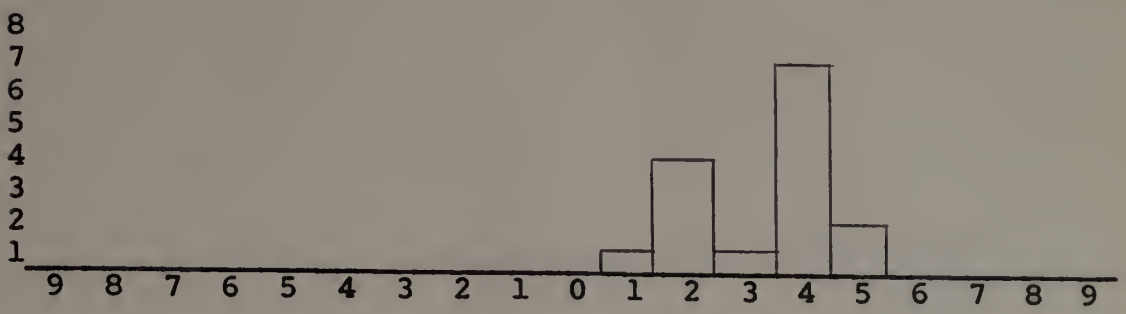


Figure K

In figure L performance variable #13 and theoretical variables #106 through #113 have only positive correlations which fall between the 0.082 and the 0.373 level. The theoretical variables in figure L have to do with pictorially identifying the lathe tool necessary to perform the required operation.

Performance variable #13 also requires the knowledge of sharpening a tool bit and use of the lathe for a cutting off operation. Figure M reflects the theoretical variables (#73, #77, #93, and #98-#103) which contain the knowledge required to perform a cutting off operation. The correlations are grouped from 0.699 to 0.364 with the highest frequency of a -.3.

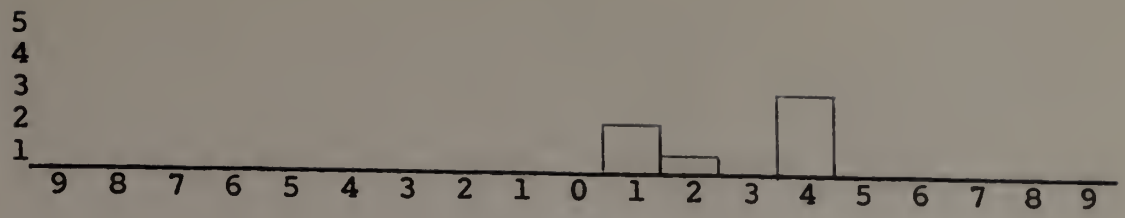


Figure L

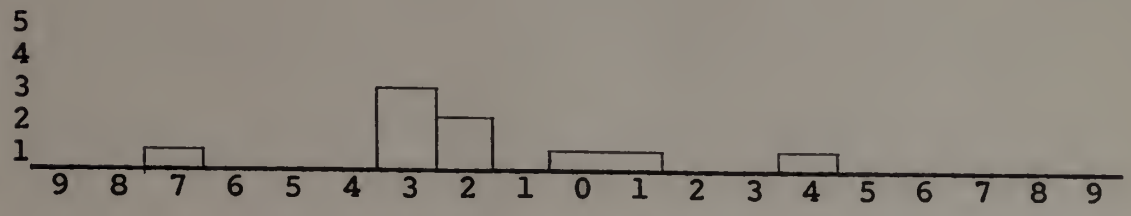


Figure M

Performance variables #16, #17, #19, #20, #21, #22, and #24 have one thing in common: they are diameter turning operations. Figures N, O, and P reflect the correlation of various theoretical variables which represent knowledge of tools, tool bit, equipment, and procedures required to perform these operations.

Figures N and O contain the theoretical variables of tool bit and equipment identification. Figure N is tool bit identification and reflects a widely and somewhat evenly distributed correlation. The highest correlation is at 0.1 but the average correlation centers around -.2. Figure O represents the theoretical variables that relate to identification of the parts of a lathe from a picture. This figure contains two separate histograms, one of which has entirely negative correlations and one of which has only positive correlations.

The difference is, for those parts of the lathe which the students use most often they can easily identify (positive correlations) and those parts which are seldom used the students could not identify by name, even though they used them in the operation performed (negative correlations). Figure P is the histogram which has the theoretical variables (#42, #44, and #46) for identifying pictorially from a picture the tools required in diameter measurement. The correlations are from -0.549 to 0.473 and the highest frequency is at .0.

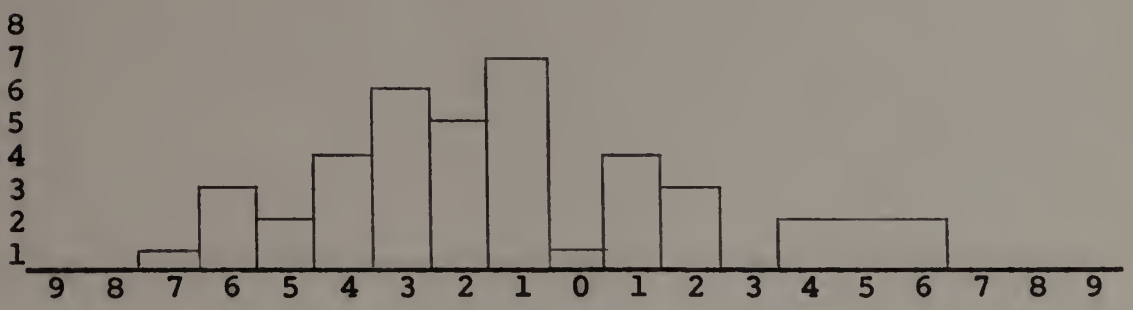


Figure N

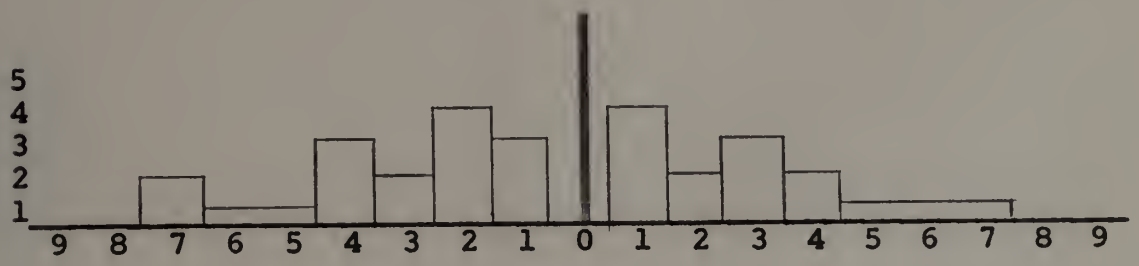


Figure O

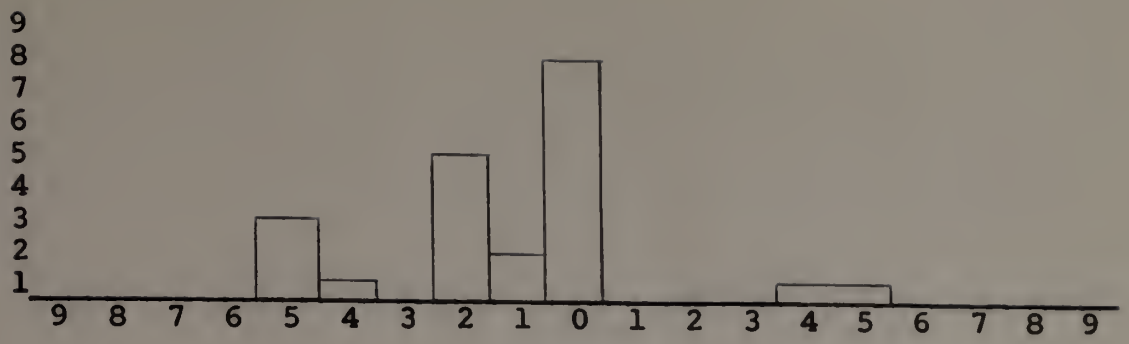


Figure P

Performance variables #16, #20, and #22 are all small internal diameter turning operation. All multiple choice questions that contain information about tool, equipment, or procedures of small internal diameter turning were correlated with these performance variables. Figure Q represents the histogram of this correlation.

The range is widely distributed and the average of the correlations is centered around .0 with the highest frequency around .1 and .2.

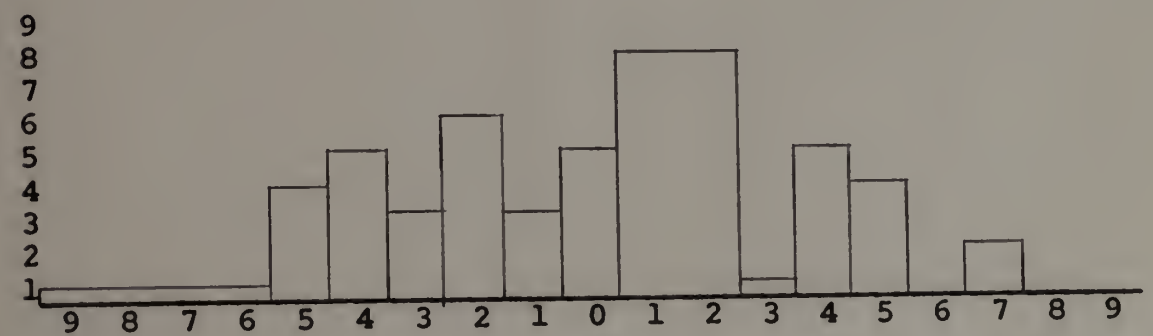


Figure Q

One multiple choice question was designed which contained knowledge about the lathe operation necessary to turn a diameter to a shoulder. Theoretical variable #92 was correlated with the performance variables #16, #19, #20, #21, #22, and #24, all of which contained shoulders. Figure R is the histogram which represents this correlation. The correlations are grouped and reflect a negative correlation with the highest frequency at -.3.

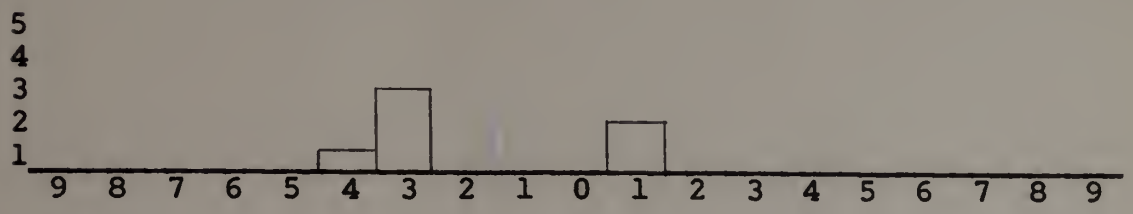


Figure R

Performance variables #17, #19, #21, and #24 are large outside diameter turning operation. The histogram below (figure S) reflects the correlation of the theoretical variables #49-#52, #54-#62, #64, #66, #67, #74, #76, #79, #91, and #99 with these performance variables. The theoretical variables represent all the multiple choice questions that contain any reference to tools, equipment or operations required to perform the large outside diameter turning.

The correlations range from -0.887 to 0.754 and the highest frequency is at -.3 and .0. This information would indicate that multiple choice questions about the tools,

equipment, and operations necessary to perform that operation are poor indicators of whether a student can perform that skill or not.

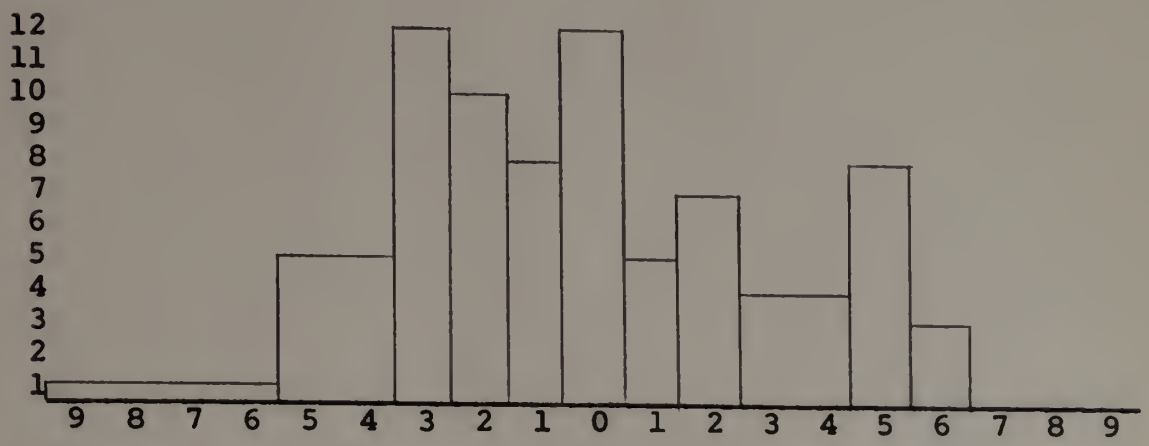


Figure S

Figure T represents large outside diameter performance variables (#17, #19, #21, and #24), and figure U represents small internal diameter performance variables (#16, #20, and #22). Both sets of variables require the use of a micrometer which is represented by theoretical variables #130-#137. Figure T has a range of correlations from -0.104 to 0.487 with the highest frequency at .3. Figure U has a range of correlations from -0.309 to 0.662 with the highest frequency at .1. The difference lies in the fact that figure U represents the performance variables which contain the diameter measurements that are the easiest to obtain with a micrometer. Figure T has performance variables requiring the use of a micrometer in a difficult way.

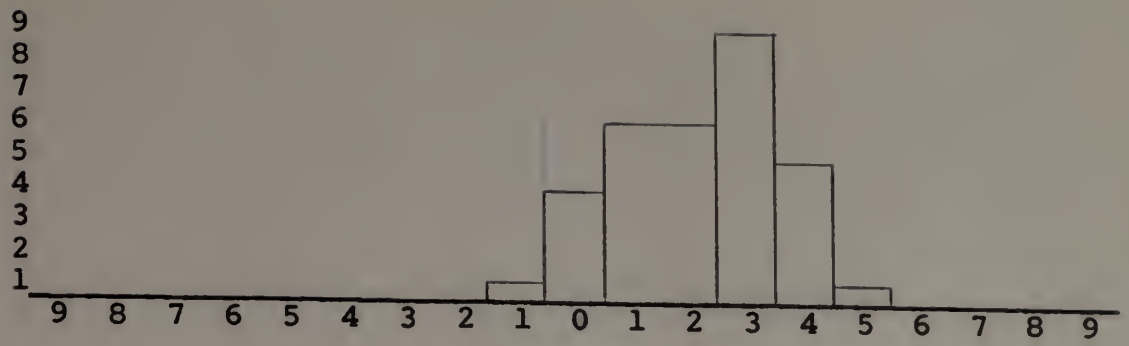


Figure T

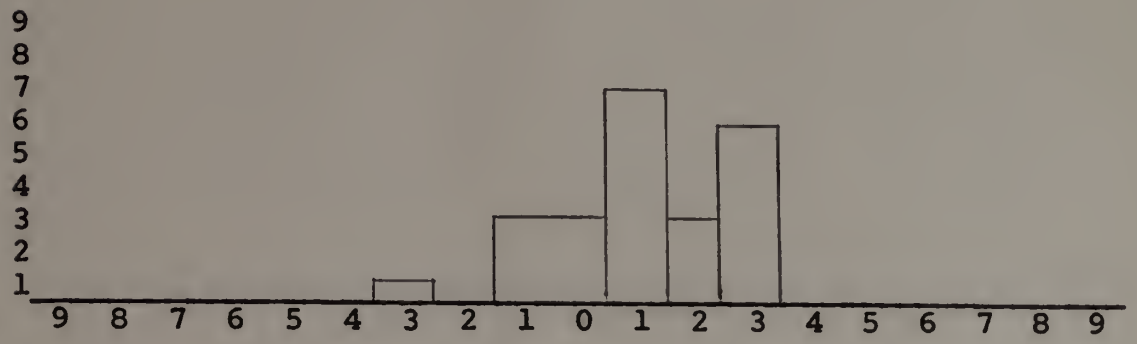


Figure U

The external and internal threading operations are represented by performance variables #15 and #23 respectively. Theoretical variables #14-#22 are identification questions about thread parts from a picture. Figure V and W represent the histograms reflecting these two sets of correlations.

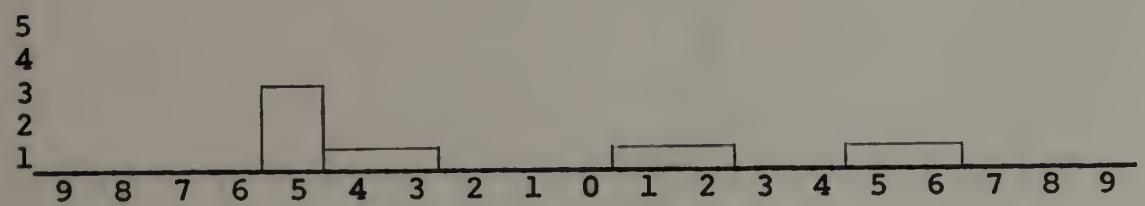


Figure V

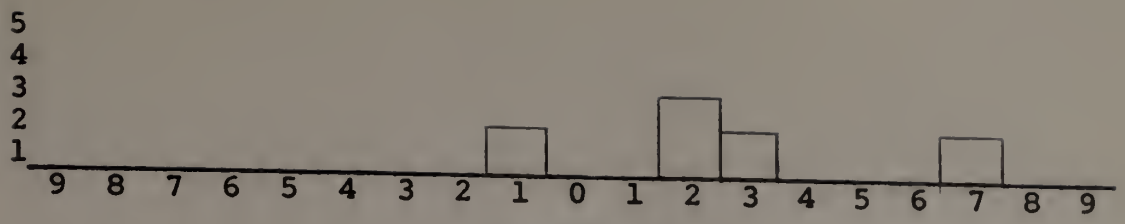


Figure W

Figure X has combined both performance variables of threading operations (#15 and #23) and reflected correlations with the theoretical variables #7-#13, which are verbal matching problems about threads.

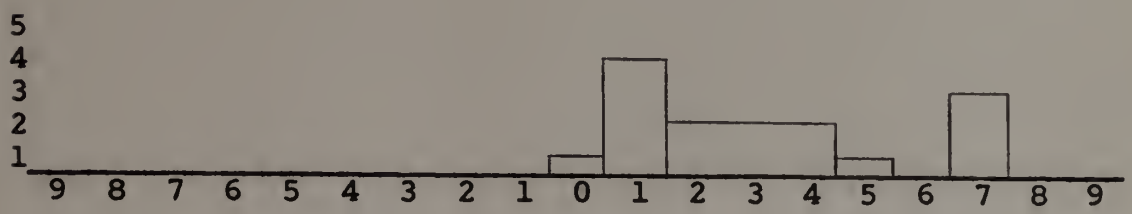


Figure X

Performance variables #18, #25, and #27 are small internal diameter operations that require the use of the cutoff tool. Figure Y is a histogram showing the correlations with the micrometer measurement problems (theoretical variables #130-#137). It shows a positive correlation peaking at a high frequency of .4. Figure Z shows the same performance variables correlated with the multiple choice questions about diameter turning and use of a cutoff tool. The correlations spread more in figure Z than figure Y with a range from -0.583 to 0.526 with the highest frequency at .1.

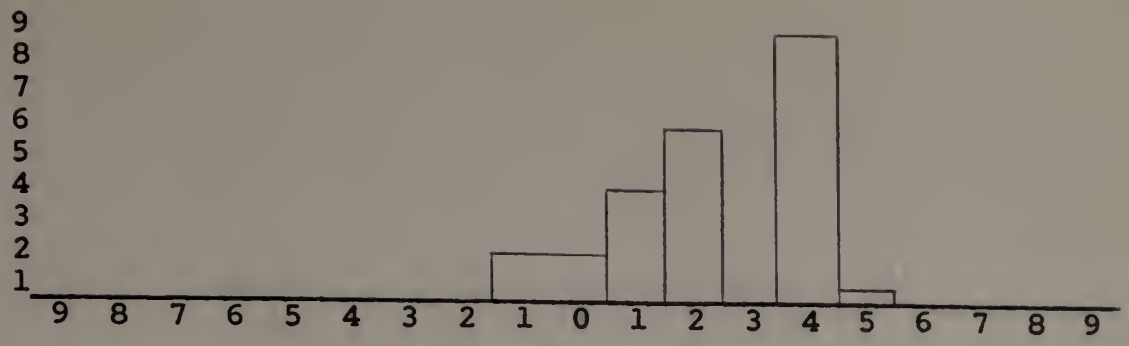


Figure Y

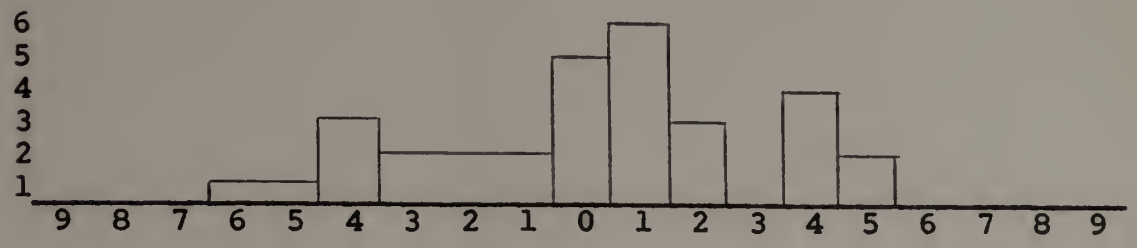


Figure Z

The micrometer measurement variables (#130-#137) were also correlated with the taper turning performance variables #26 and #28. Figure AA shows that the correlations are almost all positive with the highest frequency at .5.

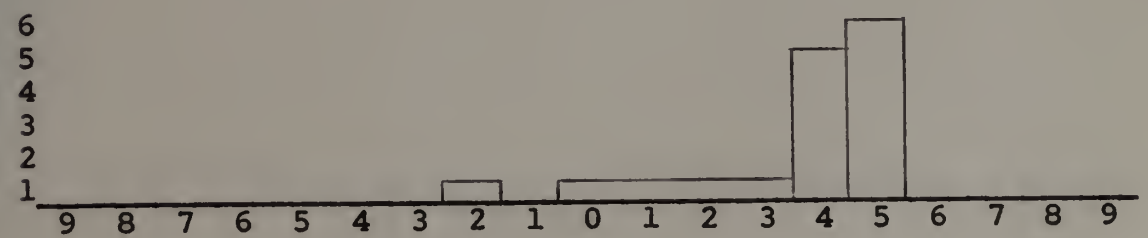


Figure AA

Performance variables #26 and #28 indicate the proficiency of an individual to a taper turning operation. Three multiple choice questions and two math problems were given (theoretical variables #59, #80, #81, #104, and #105) which reflect theoretical knowledge relating to taper turning.

Figure AB reflects the frequency distribution of the correlations of the performance variables and theoretical variables related to taper turning. The correlations vary widely and evenly from -0.602 to 0.528. The distribution of these correlations centers near .0, and there are more negative correlations than positive. This information would indicate that theoretical knowledge is a poor indicator of the student's ability to turn a taper and a negative rather than a positive indicator.

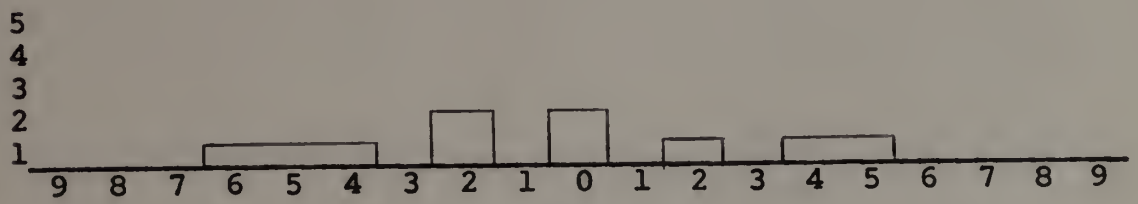


Figure AB

Biserial correlation

Historical data which included the students' chronological age in months, raw I.Q. score, and raw scores on a standardized test for mechanical reasoning and space relations was correlated with each of the 168 variables. Because

the 168 variables were dichotomous in nature and the four historical scores were continuous variables, a program to obtain a Biserial Correlation was used. The Biserial Correlation assumes that the dichotomous variable conceals a continuous distribution of attainment (from a very poor fail, to a very good pass) and that this can be adequately represented by the normal curve.

The data collected from the Biserial Correlation was not used but was collected for the purpose of allowing greater flexibility in future research based upon this study. The computer output can be found in Appendix A which contains distribution plots, division point count, and correlations themselves.

Variable frequency count

Located in Appendix C is a listing of all 165 variables in which there is a count of how many students answered a particular question right (1) and how many gave the wrong answer or were unable to do the required performance (0). Appendix C also gives the cross reference to the specific categories and corresponding test items for each variable.

CHAPTER V

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

The problem

In the United States there are only five states that are using occupational competency testing. These tests are largely of the paper and pencil variety with some requiring actual performance in simulated job situations. Reilly[3] states ". . . it appears that trade knowledge (theory) and trade performance (practical) tests are not highly correlated and that written examinations alone are a poor indicator of trade competence." This conclusion is supported by Stuit[4] who says: "Although it had been assumed that written tests sufficed to indicate what a man had learned in a service school, the evidence showed that performance tests and improved shop grades were not closely related with written test grades."

In Massachusetts, the instructional program directly related to a vocational trade is divided into two segments, related and shop. Written exams are frequently given in the related (theory) classroom but, other than job completion or teacher observation, there is a noticeable absence of criteria instruments and measurement techniques in the vocational shop areas. The students leave the high school with a certificate showing that they have met certification requirements in the

vocation when, in reality, they have only been evaluated on their theoretical knowledge. Their practical (manipulative) skills usually have not been systematically measured.

The focus of this study is designed as a pilot effort to determine if there was any indication to support the argument that to test a person's ability to perform a psychomotor skill by paper and pencil tests is not a valid means of indicating whether or not that person could perform that skill.

The method

Since the study is based upon two evaluative instruments, one of which was designed to measure theoretical knowledge and the other the actual performance of a psycho-motor skill, the first problem to overcome was the designing of these two instruments. Performance objectives were written by the teachers involved in the study and appropriate test instruments were evolved. These instruments were administered to the ninth grade machine shop students at Diman Regional Vocational School in Fall River, Massachusetts. A correlation analysis was applied and the findings were then visually portrayed in histograms (see Chapter IV).

Hypothesis and summarized results

> The acquisition of specific theoretical knowledge necessary to perform a manipulative skill does not relate to pre-determined specifications

for performance of that skill.

To find correlations of .5 to 1. would indicate that theoretical knowledge is a good indicator of a psycho-motor skill. When all correlations between the 28 performance variables and the 137 were examined only 429 out of the 3,836 were above .5. This gives very strong support to the hypothesis and when an analysis was made of the correlations that were above .5, 321 were found to be the theoretical variables that were pictorial in design. (See figures D, K, L, and O.) This left only 108 variables which had positive correlations.

Related findings

The students scored much better on the theoretical test items which were pictorial (figures K and D) than they did on the written multiple choice items (figures R and S).

In the course of conducting this study, it was discovered that the students had such low standardized test scores in reading comprehension that many of the neutral and negative correlation might have resulted from the fact that the students tested could not read or understand the written parts of the theoretical test. It was also possible that students could end up with the same results on the performance test and some students could take six hours to complete the operations while other students finished in three hours. This variation in time would have to be taken into account to relate proficiency to job efficiency. These two were probably

the major related findings I would want to take into consideration if research was again done on this hypothesis.

Conclusions and recommendations

This study was designed as a pilot effort to determine if there was any indication to support the argument that to test a person's knowledge of a psycho-motor skill is not a valid indication whether or not that person could perform that skill. Since 3,407 out of 3,836 correlations were below the .5 level, the author has come to the conclusion that he has proven through a statistical process that theoretical tests alone are invalid predictors of performance of a psycho-motor skill. The limitations of this study are considerable in that the subjects were few in number (31) and it was limited to one unit of work within one area of Vocational Education (engine lathe work for freshmen enrolled in the machine shop course).

It is recommended that a large scale research effort be done to develop new means and methods of assessing students' progress in areas of education that are concerned with the student's ability to use psycho-motor skills. Future research should answer the questions of generalizability, validity and reliability of this study's findings.

It is further recommended that legislators and leadership personnel concerned with Vocational and Technical Education be encouraged to develop means to remove the restrictive

elements of time criteria in laws governing Vocational and Technical Education Programs. That time criteria as an evaluative measure be replaced by some type of performance criteria and that evaluative procedure be developed based upon these performance criteria.

APPENDIX A

Correlation Matrix of Theoretical and Performance Variables

	1	2	3	4	5	6	7	8	9	10	11	12	13
1	1.000	0.639	0.770	0.515	0.266	0.335	0.037	-0.139	-0.011	-0.106	0.363	-0.191	-0.011
2	0.639	1.000	0.158	0.783	0.783	0.800	-0.486	-0.625	0.158	-0.046	0.246	0.052	0.158
3	0.770	0.158	1.000	0.346	0.047	0.158	0.158	-0.017	0.163	0.391	0.487	0.568	0.480
4	0.515	0.783	0.346	1.000	0.685	0.909	-0.356	-0.511	-0.241	-0.103	0.387	-0.228	-0.241
5	0.266	0.783	0.047	0.685	1.000	0.909	-0.356	-0.511	0.047	-0.103	0.387	0.266	0.346
6	0.335	0.800	0.158	0.909	0.909	1.000	-0.486	-0.625	0.158	0.253	0.246	0.639	0.521
7	0.037	-0.486	0.158	-0.356	-0.356	-0.486	1.000	0.885	0.656	0.613	0.555	0.571	0.656
8	-0.139	-0.625	-0.017	-0.511	-0.511	-0.625	0.885	1.000	0.487	0.424	0.421	0.363	0.487
9	-0.011	0.158	0.163	-0.241	0.047	0.158	0.656	0.487	1.000	0.958	0.770	0.770	0.715
10	-0.106	-0.046	0.391	-0.103	-0.103	0.253	0.613	0.424	0.958	1.000	0.734	0.840	0.639
11	0.363	0.246	0.487	0.387	0.387	0.246	0.555	0.421	0.770	0.734	1.000	0.698	0.770
12	-0.191	0.052	0.568	-0.228	0.266	0.639	0.571	0.363	0.770	0.840	0.698	1.000	0.937
13	-0.011	0.158	0.480	-0.241	0.746	0.521	0.656	0.487	0.715	0.639	0.770	0.937	1.000
14	-0.399	0.298	-0.569	0.305	0.509	0.298	-0.123	-0.295	-0.224	-0.318	0.588	-0.127	0.087
15	-0.409	0.158	0.480	0.047	0.047	0.646	0.158	-0.017	0.163	0.391	-0.017	0.770	0.480
16	-0.325	-0.288	0.578	-0.409	0.237	0.443	0.699	0.553	0.266	0.500	0.052	0.910	0.796
17	-0.539	0.052	-0.409	0.016	0.266	0.052	0.037	-0.139	-0.409	-0.479	0.363	-0.191	-0.011
18	-0.266	-0.516	0.234	0.213	-0.369	0.041	0.835	0.783	0.234	0.662	0.309	0.613	0.234
19	-0.139	-0.247	-0.017	-0.081	-0.081	-0.247	0.555	0.421	0.770	0.734	0.878	0.363	0.487
20	-0.052	-0.023	0.434	0.217	-0.007	0.475	-0.071	-0.246	0.158	0.315	0.247	0.443	0.434
21	-0.106	-0.046	0.391	0.709	0.437	0.585	0.096	-0.080	0.639	0.749	0.734	0.206	0.071
22	0.087	0.363	0.113	0.440	0.440	0.562	-0.312	-0.471	0.113	0.231	0.430	0.332	0.113
23	-0.443	-0.826	-0.071	-0.629	-0.743	-0.744	0.295	0.128	-0.332	-0.151	0.128	-0.223	-0.332
24	0.087	0.041	-0.146	0.213	0.213	0.041	0.459	0.309	-0.146	-0.209	0.309	-0.266	-0.146
25	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
26	0.037	-0.486	0.158	-0.356	-0.356	-0.486	0.667	0.555	0.158	0.096	0.555	0.037	0.158
27	-0.131	-0.298	-0.087	-0.091	-0.091	-0.060	0.123	-0.191	0.224	0.318	-0.191	-0.131	-0.369
28	0.027	-0.553	-0.468	-0.113	-0.113	-0.113	-0.018	-0.194	-0.087	-0.183	0.305	-0.266	-0.087
29	-0.139	-0.247	0.487	-0.081	-0.081	-0.247	0.555	0.421	-0.017	-0.080	0.421	0.363	0.487
30	0.206	0.253	0.071	-0.103	-0.103	-0.046	0.096	-0.080	0.391	0.294	0.424	-0.106	0.071
31	-0.592	0.141	-0.087	0.121	0.356	0.141	0.528	0.662	0.500	0.389	0.305	0.290	0.500
32	-0.396	-0.071	-0.177	-0.158	0.046	-0.071	0.266	0.430	0.692	0.492	-0.027	0.087	0.113
33	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
34	-0.571	-0.071	-0.656	-0.220	0.356	0.486	-0.667	-0.555	-0.158	-0.096	-0.555	-0.037	-0.158
35	0.037	0.071	0.158	0.220	0.220	0.071	0.667	0.555	0.158	0.096	0.555	0.037	0.158
36	-0.139	-0.247	-0.017	0.387	0.387	0.246	0.555	0.421	-0.017	-0.080	0.421	-0.139	-0.017
37	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
38	0.052	-0.223	-0.158	-0.436	-0.217	-0.223	0.071	0.246	-0.158	-0.315	-0.247	0.052	0.521
39	0.571	0.071	0.158	0.220	0.220	0.071	0.667	0.555	0.158	0.096	0.555	0.037	0.158
40	0.459	0.642	0.241	0.067	0.271	0.436	-0.220	0.081	0.512	0.359	0.511	0.459	0.512
41	-0.139	-0.625	-0.017	-0.511	-0.511	-0.625	0.555	0.878	-0.017	-0.080	0.421	-0.139	-0.017
42	0.426	-0.288	0.266	-0.094	-0.409	-0.572	0.224	0.553	0.266	0.179	0.553	-0.325	-0.178
43	0.426	0.046	0.578	0.237	-0.094	-0.288	0.224	0.052	0.266	0.179	0.553	0.098	0.266
44	0.426	0.046	0.578	0.237	-0.094	-0.288	0.224	0.052	0.266	0.179	0.553	0.098	0.266
45	0.426	0.046	0.578	0.237	-0.094	-0.288	0.224	0.052	0.266	0.179	0.553	0.098	0.266
46	0.426	0.046	0.578	0.237	-0.094	-0.288	0.224	0.052	0.266	0.179	0.553	0.098	0.266
47	0.565	-0.090	0.385	0.098	-0.274	-0.447	0.295	0.128	0.385	0.305	0.623	-0.223	-0.071
48	0.409	-0.158	0.464	-0.047	-0.346	-0.158	-0.158	0.017	0.266	0.342	0.017	0.409	0.266
49	0.409	0.158	0.464	0.241	-0.047	0.159	-0.158	0.017	0.464	0.517	0.017	0.409	0.266
50	0.016	-0.217	-0.241	0.139	-0.271	-0.217	0.220	0.387	0.346	0.165	-0.081	-0.228	0.047
51	-0.113	-0.052	0.011	-0.016	-0.016	0.209	-0.037	-0.363	0.409	0.479	-0.363	0.191	0.011
52	0.027	-0.113	-0.468	0.356	-0.113	0.409	-0.018	-0.194	-0.468	-0.183	-0.194	-0.266	-0.468
53	-0.479	-0.046	-0.342	0.165	0.165	-0.046	0.613	0.424	0.071	-0.022	-0.080	-0.106	0.071
54	-0.087	0.071	-0.403	0.158	0.158	0.071	-0.266	0.027	-0.403	-0.492	-0.430	-0.568	-0.403
55	-0.223	-0.447	-0.332	-0.274	-0.274	-0.447	0.295	0.128	-0.332	-0.390	0.128	-0.443	-0.332
56	0.098	0.046	-0.178	-0.094	-0.409	-0.288	0.224	0.052	-0.178	-0.256	0.052	-0.325	-0.178
57	-0.131	0.170	0.224	0.124	0.124	0.578	-0.443	-0.588	-0.087	0.027	0.295	0.682	0.569
58	-0.127	0.060	-0.569	-0.124	0.094	0.060	0.443	0.191	0.369	0.242	0.588	0.370	0.369

	1	2	3	4	5	6	7	8	9	10	11	12	13
59	-0.409	-0.434	-0.266	-0.241	0.346	0.158	0.158	-0.017	0.163	0.071	-0.017	-0.011	-0.266
60	-0.057	0.087	-0.795	0.234	0.027	-0.140	0.172	-0.136	-0.305	-0.422	-0.550	-0.715	-0.795
61	-0.409	-0.434	-0.266	-0.762	-0.241	-0.434	0.158	0.487	-0.266	-0.342	-0.017	-0.011	-0.266
62	-0.113	0.209	-0.309	0.459	0.228	-0.052	-0.037	0.139	0.409	0.106	0.139	-0.376	0.01
63	0.052	0.256	-0.158	0.007	0.435	0.256	0.071	-0.247	0.158	-0.046	-0.247	0.052	0.521
64	-0.057	0.306	-0.019	0.430	0.234	0.087	0.172	0.342	0.287	0.097	0.342	-0.057	-0.019
65	-0.228	-0.217	0.047	0.139	0.338	0.227	0.220	-0.081	0.346	0.437	-0.081	0.266	0.047
66	-0.613	-0.041	0.146	-0.213	-0.213	-0.041	-0.459	-0.783	0.146	0.209	-0.309	0.266	0.146
67	-0.139	-0.247	-0.017	-0.511	-0.511	-0.247	0.555	0.421	0.487	0.424	0.421	0.363	0.487
68	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
69	0.037	0.071	0.158	0.220	0.220	0.071	0.667	0.555	0.158	0.096	0.555	0.037	0.158
70	-0.087	-0.562	-0.403	-0.248	-0.046	-0.149	0.312	0.027	-0.113	-0.231	0.027	-0.087	-0.113
71	-0.229	-0.346	-0.385	-0.649	-0.649	-0.535	-0.295	-0.128	-0.385	-0.305	-0.623	0.223	0.071
72	0.016	-0.217	-0.241	-0.271	0.338	0.007	0.220	-0.081	0.346	0.165	0.387	0.266	0.346
73	-0.363	-0.246	-0.487	-0.387	-0.387	-0.246	-0.555	-0.421	-0.487	-0.424	-0.878	-0.363	-0.487
74	-0.087	-0.041	-0.234	0.369	0.369	0.516	-0.459	-0.309	0.146	0.209	-0.309	0.266	0.146
75	-0.016	-0.007	-0.047	-0.523	-0.338	-0.227	0.356	0.081	0.241	0.103	-0.387	0.228	0.241
76	0.016	-0.642	-0.241	-0.067	-0.465	-0.217	-0.356	-0.081	-0.762	-0.596	-0.511	-0.667	-0.762
77	0.139	0.247	0.017	0.081	0.081	0.247	-0.555	-0.878	0.017	0.080	-0.421	0.139	0.017
78	-0.459	-0.087	-0.287	-0.430	-0.430	-0.306	-0.172	-0.342	-0.287	-0.097	-0.342	-0.198	-0.287
79	-0.335	-0.651	0.158	-0.435	-0.435	-0.256	-0.071	0.247	-0.521	-0.253	-0.246	0.209	0.158
80	0.228	-0.227	0.241	0.067	0.067	0.217	0.356	0.081	-0.047	0.103	0.081	0.228	0.241
81	0.325	-0.046	0.178	0.409	-0.237	-0.443	-0.224	-0.052	0.178	0.256	-0.052	-0.426	-0.578
82	-0.229	0.090	0.332	-0.098	-0.096	0.090	-0.295	-0.128	0.332	0.390	-0.128	0.443	0.332
83	-0.515	-0.435	-0.346	-0.139	0.067	-0.007	0.356	0.081	-0.047	0.103	0.081	0.228	-0.047
84	0.113	0.335	-0.409	0.016	0.016	0.335	0.037	0.363	0.309	0.206	0.698	0.376	0.568
85	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
86	0.392	0.220	-0.248	0.384	0.384	0.220	0.373	0.213	-0.248	-0.309	0.213	-0.364	-0.248
87	0.299	-0.087	0.565	0.387	-0.027	0.140	0.400	0.136	0.019	0.172	0.136	0.299	0.305
88	-0.092	0.220	-0.248	-0.087	0.384	-0.266	0.373	0.213	-0.248	-0.309	0.213	-0.364	-0.248
89	0.309	-0.158	0.163	-0.241	-0.512	-0.158	0.656	0.770	-0.266	-0.342	-0.017	0.309	0.480
90	0.198	0.087	-0.305	0.027	-0.183	-0.140	0.172	-0.136	0.613	0.379	0.342	-0.057	-0.019
91	0.459	0.217	0.241	0.465	0.067	0.436	0.356	0.081	-0.047	-0.165	0.081	0.228	0.512
92	-0.011	-0.158	0.163	-0.241	-0.241	-0.158	0.158	-0.017	0.163	0.071	0.487	-0.011	0.163
93	0.191	0.209	0.565	0.228	0.228	0.443	-0.037	0.139	0.409	0.479	0.139	0.656	0.565
94	-0.027	-0.141	-0.232	0.113	-0.356	-0.141	-0.528	-0.305	-0.500	-0.389	-0.305	-0.707	-0.718
95	0.266	0.007	0.654	-0.067	-0.067	0.007	0.220	0.387	0.346	0.437	-0.081	0.515	0.346
96	0.127	0.385	-0.087	-0.305	-0.305	-0.298	0.123	0.295	0.569	0.318	-0.191	-0.131	-0.087
97	0.396	0.291	0.459	0.356	0.158	0.291	0.312	0.027	0.459	0.545	0.471	0.396	0.459
98	0.209	-0.256	0.158	-0.227	-0.227	-0.023	-0.071	-0.246	0.434	0.315	0.625	0.443	0.667
99	0.206	0.253	0.071	0.437	-0.359	-0.046	0.096	-0.080	-0.342	-0.415	0.424	-0.479	-0.342
100	-0.707	-0.141	-0.232	0.113	-0.121	0.113	0.018	-0.305	0.087	0.183	-0.305	0.266	0.087
101	-0.376	0.209	0.011	-0.016	-0.016	0.209	-0.571	-0.698	0.011	-0.206	0.139	0.191	0.409
102	-0.198	0.590	0.019	0.888	0.747	0.846	-0.172	-0.342	-0.287	-0.097	0.550	0.299	0.305
103	0.092	-0.220	-0.528	-0.384	0.087	-0.461	-0.373	-0.213	-0.060	-0.459	-0.213	-0.738	-0.528
104	0.515	0.227	0.047	0.338	0.523	0.435	-0.356	-0.081	-0.762	-0.809	-0.081	-0.228	0.047
105	0.106	0.315	-0.071	0.596	0.103	0.549	-0.096	-0.424	0.342	0.415	0.080	0.479	0.342
106	0.571	0.071	0.158	0.220	0.220	0.071	0.667	0.555	0.158	0.096	0.555	0.037	0.158
107	0.571	0.071	0.158	0.220	0.220	0.071	0.667	0.555	0.158	0.096	0.555	0.037	0.158
108	0.571	0.071	0.158	0.220	0.220	0.071	0.667	0.555	0.158	0.096	0.555	0.037	0.158
109	0.571	0.071	0.158	0.220	0.220	0.071	0.667	0.555	0.158	0.096	0.555	0.037	0.158
110	0.571	0.071	0.158	0.220	0.220	0.071	0.667	0.555	0.158	0.096	0.555	0.037	0.158
111	0.363	-0.247	-0.017	0.387	0.387	0.246	0.555	0.421	-0.017	-0.080	0.421	-0.139	-0.017
112	0.571	0.071	0.158	0.220	0.220	0.071	0.667	0.555	0.158	0.096	0.555	0.037	0.158
113	0.363	-0.247	-0.017	0.387	0.387	0.246	0.555	0.421	-0.017	-0.080	0.421	-0.139	-0.017
114	0.363	-0.247	-0.017	-0.081	-0.081	-0.247	0.555	0.421	-0.017	-0.080	0.421	-0.139	-0.017
115	0.363	-0.247	-0.017	-0.081	-0.081	-0.247	0.555	0.421	0.487	0.424	0.421	-0.139	-0.017
116	0.392	-0.266	-0.248	-0.087	-0.087	-0.266	0.373	0.213	0.060	-0.019	0.213	-0.364	-0.248

	1	2	3	4	5	6	7	8	9	10	11	12	13
117	0.613	0,041	-0,146	0.213	0.213	0.041	0,459	0,309	-0,146	-0,209	0,309	-0,266	-0,146
118	0.309	0,158	0.163	0.047	0.346	0.521	0.656	0,487	0,715	0,639	0,487	0,568	0,715
119	0.698	0,246	0.487	0.387	0.387	0.246	0.555	0,421	0,487	0,424	0,421	-0,139	-0,017
120	0.309	0,158	0.163	0.047	0.346	0.521	0.656	0,487	0,715	0,639	0,487	0,568	0,715
121	0.571	0,071	0.158	0.220	0.220	0.071	0.667	0,555	0,158	0,096	0,555	0,037	0,158
122	0.698	0,246	-0.017	0.387	-0.081	0.246	0.555	0,421	-0,017	-0,080	0,421	-0,139	-0,017
123	0.698	0,246	-0.017	0.387	-0.081	0.246	0.555	0,421	-0,017	-0,080	0,421	-0,139	-0,017
124	0.698	-0,247	0.487	-0.081	0.387	0.246	0.555	0,421	-0,017	-0,080	0,421	0,363	0,487
125	0.613	0.369	0.234	0.500	0.500	0.369	0.459	0,309	0,234	0,158	0,783	0,087	0,234
126	0.698	-0,247	0.487	-0.081	0.387	0.246	0.555	0,421	-0,017	-0,080	0,421	0,363	0,487
127	0.571	0.071	0.158	0.220	0.220	0.071	0.667	0,555	0,158	0,096	0,555	0,037	0,158
128	0.571	0.071	0.158	0.220	0.220	0.071	0.667	0,555	0,158	0,096	0,555	0,037	0,158
129	0.698	0,246	0.487	0.387	-0.081	-0.247	0.555	0,421	-0,017	-0,080	0,421	-0,139	-0,017
130	0.087	0,041	-0.146	0.213	0.213	0.041	0.459	0,309	-0,146	-0,209	0,309	-0,266	-0,146
131	0.363	0.246	-0.017	0.387	0.387	0.246	0.555	0,421	-0,017	-0,080	0,421	-0,139	-0,017
132	0.571	0.071	0.158	0.220	0.220	0.071	0.667	0,555	0,158	0,096	0,555	0,037	0,158
133	0.571	0.071	0.158	0.220	0.220	0.071	0.667	0,555	0,158	0,096	0,555	0,037	0,158
134	0.613	0.369	-0.146	0.500	0.500	0.369	0.459	0,309	-0,146	-0,209	0,309	-0,266	-0,146
135	0.571	0.071	0.158	0.220	0.220	0.071	0.667	0,555	0,158	0,096	0,555	0,037	0,158
136	0.571	0.071	0.158	0.220	0.220	0.071	0.667	0,555	0,158	0,096	0,555	0,037	0,158
137	0.392	0.220	-0.248	-0.087	-0.087	0.220	0.373	0,213	-0,248	-0,309	0,213	-0,092	0,060
138	-0.325	-0.288	0.266	0.237	0.237	0.046	0.224	0,052	-0,178	-0,256	0,052	-0,325	-0,178
139	-0.139	0,246	0.487	0.387	0.387	0.246	0.555	0,421	-0,017	-0,080	0,421	0,363	0,487
140	0.027	0,141	0.500	0.356	-0.113	-0.113	-0.018	-0,194	0,232	0,123	0,305	-0,266	-0,087
141	-0.139	-0,247	-0.017	-0.081	-0.081	-0.247	0.555	0,421	-0,017	-0,080	0,421	-0,139	-0,017
142	-0.266	-0,346	-0.087	0.121	0.356	0.141	0.528	0,305	-0,468	-0,535	-0,194	0,027	0,232
143	0.113	-0,209	-0.011	0.266	0.016	0.052	0.037	-0,139	-0,409	-0,479	-0,139	-0,539	-0,409
144	0.098	0.046	-0.403	0.237	0.237	0.443	0.224	0,052	-0,178	-0,256	0,052	-0,325	-0,403
145	0.087	-0,516	0.234	0.213	-0.369	-0.516	0.459	0,309	-0,146	-0,209	0,309	-0,266	-0,146
146	-0.139	-0,247	-0.017	-0.511	-0.511	-0.247	0.555	0,421	0,487	0,424	0,421	0,363	0,487
147	0.565	-0.090	0.385	0.500	0.098	-0.090	0.295	0,128	0,385	0,305	0,623	-0,223	-0,071
148	0.098	-0,288	-0.178	-0.094	-0.788	-0.572	0.224	0,553	-0,403	-0,459	0,052	-0,509	-0,403
149	0.098	-0,288	-0.403	-0.409	-0.094	-0.288	0.699	0,553	0,266	0,179	0,052	0,098	0,266
150	-0.364	-0.266	-0.248	-0.687	-0.087	-0.266	0.373	0,699	0,060	-0,019	0,213	0,392	0,060
151	-0.223	-0.447	-0.332	-0.274	-0.629	-0.447	0.295	0,128	-0,071	-0,151	0,128	-0,443	-0,332
152	-0.092	0.220	0.528	-0.526	-0.087	-0.266	0.373	0,699	0,060	-0,019	0,213	0,392	0,060
153	-0.479	-0.046	-0.517	-0.103	0.165	-0.315	0.613	0,424	-0,342	-0,415	-0,080	-0,479	-0,342
154	-0.565	-0.158	0.163	0.047	0.047	0.521	0.656	0,487	0,163	0,391	-0,017	0,770	0,715
155	0.309	-0.158	0.480	0.654	-0.241	0.158	0.656	0,487	0,163	0,391	-0,017	-0,011	-0,266
156	-0.223	-0,447	0,385	0.098	-0.274	-0.090	0.295	0,128	-0,332	-0,151	0,128	0,229	-0,071
157	-0.325	-0.572	-0.178	-0.094	-0.705	-0.288	0.699	0,805	0,266	0,500	0,052	0,098	-0,178
158	0.229	-0.090	0.385	0.098	0.098	-0.090	0.743	0,623	-0,071	-0,151	0,128	0,229	0,385
159	-0.443	-0,447	-0.332	-0.629	-0.274	-0.447	0.295	0,623	-0,071	-0,151	0,128	-0,223	-0,071
160	0.087	0,369	0.234	0.213	-0.369	0.369	0.459	0,309	0,712	0,662	0,309	0,087	0,234
161	-0.092	-0,266	0.060	-0.087	0.583	0.461	0.373	0,213	-0,248	-0,309	0,213	0,392	0,528
162	-0.092	0,220	0.060	0.384	-0.087	0.220	0.373	0,213	0,060	-0,019	0,213	-0,364	-0,248
163	0.209	-0,468	0.158	-0.007	-0.007	-0.256	-0.071	0,247	0,158	0,315	0,247	-0,335	-0,521
164	-0.092	-0,266	0.060	-0.087	0.384	0.220	0.373	0,213	0,060	-0,019	0,213	-0,092	0,060
165	-0.364	-0,266	-0.248	-0.526	-0.087	-0.266	0.373	0,213	-0,248	-0,309	0,213	-0,092	0,060
166	9.990	9,990	9,990	9.990	9.990	9.990	9.990	9,990	9,990	9,990	9,990	9,990	9,990
167	9.990	9,990	9,990	9.990	9.990	9.990	9.990	9,990	9,990	9,990	9,990	9,990	9,990

	14	15	16	17	18	19	20	21	22	23	24	25	26
1	-0,399	-0,409	-0,325	-0,539	-0,266	-0,139	-0,052	-0,106	0,087	-0,443	0,087	9,990	0,037
2	0,298	0,158	-0,268	0,052	-0,516	-0,247	-0,023	-0,046	0,363	-0,826	0,041	9,990	-0,486
3	-0,569	0,480	0,578	-0,409	0,234	-0,017	0,434	0,391	0,113	-0,071	-0,146	9,990	0,158
4	0,305	0,047	-0,409	0,016	0,213	-0,081	0,217	0,709	0,440	-0,629	0,213	9,990	-0,356
5	0,509	0,047	0,237	0,266	-0,369	-0,081	-0,007	0,437	0,440	-0,743	0,213	9,990	-0,356
6	0,298	0,646	0,443	0,052	0,041	-0,247	0,475	0,585	0,562	-0,744	0,041	9,990	-0,486
7	-0,123	0,158	0,699	0,037	0,835	0,555	-0,071	0,096	-0,312	0,295	0,459	9,990	0,667
8	-0,295	-0,017	0,553	-0,139	0,783	0,421	-0,246	-0,080	-0,471	0,128	0,309	9,990	0,555
9	-0,224	0,163	0,266	-0,409	0,234	0,770	0,158	0,639	0,113	-0,332	-0,146	9,990	0,158
10	-0,318	0,391	0,500	-0,479	0,662	0,734	0,315	0,749	0,231	-0,151	-0,209	9,990	0,096
11	0,588	-0,017	0,052	0,363	0,309	0,878	0,247	0,734	0,430	0,128	0,309	9,990	0,555
12	-0,127	0,770	0,910	-0,191	0,613	0,363	0,443	0,206	0,332	-0,223	-0,266	9,990	0,037
13	0,087	0,480	0,796	-0,011	0,234	0,487	0,434	0,071	0,113	-0,332	-0,146	9,990	0,158
14	1,000	-0,569	-0,495	0,925	-0,415	0,191	0,170	0,242	0,572	-0,401	-0,101	9,990	0,443
15	-0,569	1,000	0,796	-0,409	0,712	-0,017	0,667	0,071	0,692	-0,071	0,234	9,990	0,158
16	-0,495	0,796	1,000	-0,325	0,762	0,052	0,288	-0,256	-0,031	0,019	-0,077	9,990	0,224
17	0,925	-0,409	-0,325	1,000	-0,266	-0,139	0,209	0,206	0,332	-0,223	0,087	9,990	0,571
18	-0,415	0,712	0,762	-0,266	1,000	0,309	0,516	0,662	0,266	0,409	0,633	9,990	0,459
19	0,191	-0,017	0,052	-0,139	0,309	1,000	0,247	0,734	-0,027	0,128	0,309	9,990	0,555
20	0,170	0,667	0,288	0,209	0,516	0,247	1,000	0,549	0,691	-0,346	-0,041	9,990	-0,071
21	0,242	0,071	-0,256	0,206	0,662	0,734	0,549	1,000	0,492	-0,151	0,158	9,990	0,096
22	0,572	0,692	-0,031	0,332	0,266	-0,027	0,691	0,492	1,000	-0,588	0,266	9,990	-0,312
23	-0,401	-0,071	0,019	-0,223	0,409	0,128	-0,346	-0,151	-0,588	1,000	0,409	9,990	0,743
24	-0,101	0,234	-0,077	0,087	0,633	0,309	-0,041	0,158	0,266	0,409	1,000	9,990	0,835
25	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	1,000	9,990
26	0,443	0,158	0,224	0,571	0,459	0,555	-0,071	0,096	-0,312	0,743	0,835	9,990	1,000
27	-0,295	0,224	0,113	-0,131	0,415	0,295	0,060	0,630	0,041	0,401	0,415	9,990	0,123
28	-0,471	-0,087	-0,387	-0,592	0,021	0,662	0,113	0,389	-0,037	0,505	0,565	9,990	-0,018
29	0,191	0,487	0,553	0,363	0,309	0,421	-0,246	-0,080	-0,471	0,623	0,783	9,990	0,885
30	-0,027	0,071	-0,459	-0,479	0,158	0,424	0,315	0,294	-0,034	0,305	0,662	9,990	0,613
31	0,031	0,232	0,024	0,027	0,565	0,305	0,346	0,389	-0,037	-0,491	0,021	9,990	-0,018
32	-0,252	0,403	-0,031	0,087	0,266	-0,027	-0,149	0,231	-0,052	-0,217	0,266	9,990	-0,312
33	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990
34	0,123	-0,158	-0,224	-0,037	-0,459	-0,555	-0,486	-0,096	-0,266	-0,295	-0,459	9,990	-0,667
35	-0,123	0,656	0,224	0,037	0,835	0,555	0,486	0,613	0,266	0,295	0,835	9,990	0,667
36	0,191	0,487	0,052	0,363	0,783	0,421	0,625	0,734	0,430	0,128	0,783	9,990	0,555
37	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990
38	-0,170	0,158	0,046	0,052	0,041	-0,247	-0,256	-0,315	-0,291	-0,090	0,041	9,990	-0,486
39	-0,123	0,158	0,224	0,037	0,459	0,555	-0,071	0,096	0,266	0,295	0,835	9,990	0,667
40	-0,305	0,241	0,094	-0,515	-0,213	0,081	0,007	0,103	-0,046	-0,500	0,369	9,990	-0,220
41	-0,295	-0,017	0,052	-0,139	0,309	0,421	-0,246	-0,080	-0,471	0,623	0,309	9,990	0,555
42	-0,495	-0,403	-0,339	-0,325	-0,077	0,553	-0,443	0,179	-0,031	0,019	0,317	9,990	0,224
43	-0,495	-0,178	-0,087	-0,325	-0,077	0,553	-0,443	0,179	-0,031	0,019	0,317	9,990	0,224
44	-0,495	-0,178	-0,087	-0,325	-0,077	0,553	-0,443	0,179	-0,031	0,019	0,317	9,990	0,224
45	-0,495	-0,178	-0,087	-0,325	-0,077	0,553	-0,443	0,179	-0,031	0,019	0,317	9,990	0,224
46	-0,495	-0,178	-0,087	-0,325	-0,077	0,553	-0,443	0,179	-0,031	0,019	0,317	9,990	0,224
47	-0,401	-0,332	-0,266	-0,223	0,000	0,623	-0,346	0,305	0,158	0,124	0,409	9,990	0,295
48	-0,369	0,464	0,178	-0,309	0,146	-0,487	0,521	-0,071	0,459	0,071	0,146	9,990	-0,158
49	-0,369	0,464	0,178	-0,309	0,146	0,017	0,521	0,517	0,728	-0,689	-0,234	9,990	-0,656
50	-0,524	-0,241	-0,409	-0,667	0,213	0,387	0,217	0,165	-0,158	-0,274	0,213	9,990	-0,356
51	-0,131	0,565	0,325	-0,113	0,266	0,139	0,335	0,479	0,396	-0,229	0,266	9,990	-0,037
52	0,031	-0,087	-0,387	-0,266	0,021	-0,194	-0,141	-0,183	0,194	0,505	0,565	9,990	0,528
53	-0,027	-0,342	0,179	-0,106	0,158	0,424	-0,585	-0,022	-0,034	-0,390	0,158	9,990	0,096
54	-0,379	-0,403	-0,295	-0,332	-0,266	0,027	-0,291	0,034	-0,528	-0,158	0,318	9,990	-0,266
55	0,025	-0,332	-0,266	-0,223	0,000	0,128	-0,346	-0,390	0,158	0,571	0,409	9,990	0,295
56	-0,495	-0,403	-0,087	-0,325	-0,077	0,553	-0,046	-0,256	-0,667	0,019	-0,077	9,990	0,224
57	-0,079	0,682	0,495	-0,131	0,101	-0,191	0,535	0,027	0,452	-0,025	0,101	9,990	-0,443
58	0,295	-0,569	0,223	0,131	-0,101	0,191	-0,298	-0,318	-0,252	0,025	-0,415	9,990	-0,123

	14	15	16	17	18	19	20	21	22	23	24	25	26
59	0.369	0.163	0.266	0.309	-0.146	0.407	0.158	0.071	0.403	-0.332	-0.146	9.990	0.158
60	0.227	-0.305	-0.464	0.198	0.158	-0.136	-0.306	-0.172	0.348	-0.332	0.158	9.990	-0.400
61	-0.224	-0.266	0.266	-0.011	-0.146	-0.017	-0.158	-0.342	-0.459	0.385	-0.146	9.990	0.158
62	0.127	-0.309	-0.682	0.191	-0.087	0.139	-0.209	0.479	-0.087	-0.229	0.266	9.990	-0.037
63	0.060	0.158	0.046	0.052	0.041	-0.247	-0.256	-0.046	-0.071	-0.090	0.369	9.990	0.071
64	0.007	-0.019	-0.158	-0.057	0.158	-0.136	-0.087	0.379	0.147	-0.332	-0.418	9.990	-0.400
65	0.091	-0.241	0.586	0.016	0.213	0.387	0.436	0.437	0.248	-0.274	-0.369	9.990	-0.356
66	0.415	0.146	0.077	0.266	-0.189	-0.309	0.369	0.209	0.318	0.000	-0.633	9.990	-0.459
67	0.191	0.487	0.052	0.363	0.309	0.421	0.247	-0.080	-0.027	0.623	0.783	9.990	0.885
68	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
69	-0.123	0.656	0.224	0.037	0.835	0.555	0.486	0.613	0.266	0.295	0.835	9.990	0.667
70	-0.172	-0.113	0.031	-0.087	0.318	-0.430	-0.291	-0.231	0.052	0.588	0.577	9.990	0.312
71	-0.707	0.332	0.266	-0.565	0.000	-0.128	-0.090	-0.851	-0.545	0.191	0.000	9.990	-0.295
72	0.509	-0.512	0.237	0.266	-0.369	-0.081	-0.227	-0.103	-0.158	0.500	-0.369	9.990	0.220
73	-0.191	-0.487	-0.052	-0.363	-0.783	-0.421	-0.247	-0.734	-0.430	-0.128	-0.783	9.990	-0.555
74	0.415	0.146	0.077	0.266	-0.189	-0.309	0.369	0.209	0.577	-0.409	-0.189	9.990	-0.459
75	-0.509	-0.047	0.409	-0.515	-0.213	0.081	-0.217	-0.709	-0.440	-0.098	-0.500	9.990	-0.220
76	0.091	0.047	-0.409	0.016	0.213	-0.081	-0.007	-0.103	0.046	0.500	0.500	9.990	0.220
77	-0.191	0.017	-0.052	-0.363	-0.309	-0.421	0.246	0.080	0.471	-0.128	-0.309	9.990	-0.555
78	-0.007	0.305	-0.176	0.299	0.418	0.136	0.306	-0.097	0.060	0.332	0.648	9.990	0.400
79	-0.535	0.434	0.288	-0.639	-0.041	-0.246	-0.223	-0.585	-0.363	0.826	-0.041	9.990	0.486
80	-0.091	0.241	0.094	-0.266	0.613	-0.387	0.007	0.103	0.158	0.274	-0.213	9.990	-0.220
81	-0.223	-0.578	-0.363	-0.426	-0.317	-0.052	-0.807	-0.179	-0.628	0.266	-0.317	9.990	-0.224
82	0.401	0.071	0.266	0.223	-0.409	-0.128	-0.090	0.151	-0.158	-0.124	-0.815	9.990	-0.295
83	0.124	-0.047	0.409	0.228	0.613	-0.387	0.007	0.103	0.158	0.629	0.613	9.990	0.356
84	0.131	-0.409	-0.325	-0.191	-0.266	0.363	-0.052	-0.106	0.087	-0.223	0.087	9.990	0.037
85	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
86	0.206	-0.248	-0.181	0.392	0.087	0.213	-0.220	-0.019	-0.029	-0.104	0.087	9.990	0.373
87	-0.443	0.305	0.464	-0.720	0.648	0.136	-0.140	0.172	0.060	-0.037	-0.158	9.990	-0.172
88	0.206	-0.248	-0.181	0.392	0.087	0.213	-0.461	-0.309	-0.029	0.251	0.512	9.990	0.373
89	-0.224	0.163	0.578	-0.011	0.234	-0.017	0.434	-0.517	-0.177	-0.332	-0.146	9.990	0.158
90	0.007	-0.305	-0.464	-0.299	0.158	0.342	-0.087	0.097	0.348	-0.332	0.158	9.990	-0.400
91	-0.305	0.512	0.094	-0.016	0.369	-0.387	0.227	-0.165	0.158	-0.500	0.613	9.990	0.356
92	0.369	-0.266	-0.403	0.309	-0.146	-0.017	0.158	0.071	0.403	-0.071	-0.146	9.990	0.158
93	-0.131	0.565	0.509	-0.113	0.266	-0.363	0.639	0.479	0.396	-0.229	-0.087	9.990	-0.571
94	0.217	-0.232	-0.840	0.266	-0.021	-0.662	-0.113	-0.123	0.037	0.491	0.319	9.990	0.018
95	-0.692	0.654	0.586	-0.459	0.500	-0.081	-0.007	0.165	0.044	-0.629	-0.369	9.990	-0.356
96	-0.295	-0.087	-0.223	0.127	0.101	-0.191	-0.170	0.027	-0.172	-0.389	0.415	9.990	0.123
97	0.252	0.177	0.031	-0.087	0.318	0.027	0.363	0.034	0.615	-0.158	-0.266	9.990	-0.266
98	-0.060	0.158	-0.046	-0.335	-0.369	0.625	-0.223	0.046	-0.149	0.447	-0.041	9.990	0.486
99	0.242	-0.342	-0.459	0.206	-0.209	-0.080	-0.253	-0.415	-0.034	0.305	-0.209	9.990	0.096
100	0.217	0.468	0.387	0.592	0.319	-0.305	0.141	0.183	0.266	0.287	0.319	9.990	0.018
101	0.127	0.409	-0.098	0.191	-0.613	0.139	0.335	0.106	0.158	-0.229	-0.613	9.990	-0.571
102	0.595	0.305	0.158	0.299	0.418	0.136	0.306	0.422	0.266	-0.452	-0.158	9.990	-0.172
103	0.505	-0.820	-0.602	0.364	-0.512	-0.213	-0.266	0.019	0.029	-0.251	-0.087	9.990	-0.373
104	-0.124	-0.241	-0.094	-0.228	-0.369	-0.511	-0.435	-0.103	-0.158	-0.274	0.213	9.990	-0.356
105	0.318	-0.071	0.256	0.106	-0.158	-0.424	0.253	0.022	0.295	0.151	-0.158	9.990	-0.096
106	-0.123	0.158	0.224	0.037	0.459	0.555	-0.071	0.096	0.266	0.295	0.835	9.990	0.667
107	-0.123	0.158	0.224	0.037	0.459	0.555	-0.071	0.096	0.266	0.295	0.835	9.990	0.667
108	-0.123	0.158	0.224	0.037	0.459	0.555	-0.071	0.096	0.266	0.295	0.835	9.990	0.667
109	-0.123	0.158	0.224	0.037	0.459	0.555	-0.071	0.096	0.266	0.295	0.835	9.990	0.667
110	-0.123	0.158	0.224	0.037	0.459	0.555	-0.071	0.096	0.266	0.295	0.835	9.990	0.667
111	0.191	-0.017	0.052	0.363	0.309	0.421	0.247	0.424	0.430	0.128	0.783	9.990	0.555
112	-0.123	0.158	0.224	0.037	0.459	0.555	-0.071	0.096	0.266	0.295	0.835	9.990	0.667
113	0.191	-0.017	0.052	0.363	0.309	0.421	0.247	0.424	0.430	0.128	0.783	9.990	0.555
114	-0.295	-0.017	0.052	-0.139	0.309	0.421	-0.246	-0.080	-0.027	0.623	0.783	9.990	0.555
115	-0.295	-0.017	0.052	-0.139	0.309	0.878	-0.246	0.424	-0.027	0.128	0.783	9.990	0.555
116	-0.278	-0.248	-0.181	-0.364	0.087	0.699	-0.461	-0.019	-0.029	0.251	0.512	9.990	0.373

	14	15	16	17	18	19	20	21	22	23	24	25	26
117	-0.101	-0.146	-0.077	-0.266	0.189	0.309	-0.369	-0.209	0,266	0.409	0,633	9,990	0,459
118	-0.224	0.163	0.266	-0.565	0.234	0.487	0.434	0,071	0,403	-0,332	0,234	9,990	0,158
119	-0.295	-0.017	0.052	-0.139	0.309	0.421	0.247	0,424	-0,027	0,128	0,783	9,990	0,555
120	-0.224	0.163	0.266	-0.565	0.234	0.487	0.434	0,071	0,403	-0,332	0,234	9,990	0,158
121	-0.123	0,158	0.224	0.037	0.459	0.555	-0.071	0,096	0,266	0,295	0,835	9,990	0,667
122	-0.295	-0.017	0.052	-0.139	0.309	0.421	-0.246	-0,080	-0,027	0,128	0,783	9,990	0,555
123	-0.295	-0.017	0.052	-0.139	0.309	0.421	-0.246	-0,080	-0,027	0,128	0,783	9,990	0,555
124	-0.295	0.487	0.553	-0.139	0.309	0.421	0.247	-0,080	0,430	0,128	0,783	9,990	0,555
125	0.468	-0.146	-0.077	0.087	0.189	0.309	-0.369	0,158	0,539	0,000	0,633	9,990	0,459
126	-0.295	0.487	0.553	-0.139	0.309	0.421	0.247	-0,080	0,430	0,128	0,783	9,990	0,555
127	-0.123	0.158	0.224	0.037	0.459	0.555	-0.071	0,096	0,266	0,295	0,835	9,990	0,667
128	-0.123	0.158	0.224	0.037	0.459	0.555	-0.071	0,096	0,266	0,295	0,835	9,990	0,667
129	-0.295	-0.017	0.052	-0.139	0.309	0.421	0.247	-0,080	0,430	0,128	0,783	9,990	0,555
130	-0.101	0.234	-0.077	0.087	0.633	0.309	0.516	0,158	0,539	0,000	0,930	9,990	0,459
131	0.191	-0.017	0.052	-0.139	0.309	0.421	-0.246	-0,080	0,430	0,128	0,783	9,990	0,555
132	-0.123	0.158	0.224	0.037	0.459	0.555	-0.071	0,096	0,266	0,295	0,835	9,990	0,667
133	-0.123	0.158	0.224	0.037	0.459	0.555	-0.071	0,096	0,266	0,295	0,835	9,990	0,667
134	0.468	-0.146	-0.077	-0.266	0.189	0.309	-0.369	-0,209	0,539	0,000	0,633	9,990	0,459
135	-0.123	0.158	0.224	0.037	0.459	0.555	-0.071	0,096	0,266	0,295	0,835	9,990	0,667
136	-0.123	0.158	0.224	0.037	0.459	0.555	-0.071	0,096	0,266	0,295	0,835	9,990	0,667
137	-0.278	-0.248	0.149	-0.092	0.087	0.213	-0.220	-0,309	-0,480	0,251	0,512	9,990	0,373
138	-0.113	-0.178	-0.087	0.098	-0.077	0.052	-0.046	0,179	-0,667	0,473	0,317	9,990	0,699
139	0.191	0.487	0.553	0.363	0.309	0.421	-0.246	-0,080	-0,471	0,128	0,309	9,990	0,555
140	0.031	0,232	-0.387	0.027	0.021	0.305	0.113	0,389	-0,037	0,158	0,569	9,990	0,528
141	0.568	-0.017	0.052	0.698	0.309	0.421	-0.246	0,424	-0,027	0,623	0,783	9,990	0,885
142	-0.217	0,232	0.356	-0.266	0.565	-0.194	-0.141	0,123	-0,037	0,158	0,021	9,990	-0,018
143	0.131	-0.409	-0.325	0.113	-0.266	-0.139	-0.052	-0,106	-0,158	0,229	0,613	9,990	0,571
144	0.518	-0.178	-0.087	0.426	-0.077	0.052	-0.046	0,179	0,628	-0,266	-0,077	9,990	0,224
145	-0.101	-0.146	-0.077	0.087	0.189	0.309	0.516	0,158	0,266	0,409	0,189	9,990	0,459
146	-0.295	0.487	0.052	-0.139	0.309	0.421	0.247	-0,080	-0,027	0,623	0,309	9,990	0,555
147	0.025	-0.332	-0.266	0.229	0.000	0.623	0.090	0,625	0,158	-0,191	0,000	9,990	0,295
148	-0.113	-0.178	-0.339	0.098	-0.077	0.052	-0.046	-0,459	-0,353	0,473	0,317	9,990	0,699
149	-0.113	-0.403	0.363	-0.325	0.317	0.553	-0.443	-0,256	-0,667	0,019	-0,077	9,990	0,224
150	-0.278	0,060	0.602	-0.092	0.087	0.213	-0.220	-0,309	-0,480	0,251	0,087	9,990	0,373
151	-0.401	-0.071	-0.266	-0.223	0.000	0.623	-0.346	-0,151	-0,217	0,571	0,409	9,990	0,295
152	-0.505	0.528	0.602	-0.364	0.087	0.213	-0.461	-0,309	-0,480	-0,104	0,087	9,990	0,373
153	0.485	-0.342	-0.256	0.468	0.652	-0.080	-0.253	-0,022	0,231	-0,151	0,158	9,990	0,096
154	0.087	0.480	0.796	-0.011	0.712	-0.017	0.434	0,071	0,113	-0,071	-0,146	9,990	0,158
155	-0.224	-0.266	0.266	-0.011	0.712	-0.017	0.434	0,639	0,113	-0,071	-0,146	9,990	0,158
156	0.389	-0.071	0.473	0.565	0.409	0.128	0.744	0,305	0,158	0,571	0,409	9,990	0,743
157	-0.495	-0.178	0.363	-0.325	0.762	0.553	-0.443	0,500	-0,353	0,019	-0,077	9,990	0,224
158	0.025	-0.071	0.473	0.229	0.409	0.128	0.090	-0,151	0,158	-0,191	0,000	9,990	0,295
159	0.025	-0.332	0.019	0.229	0.000	0.623	-0.346	-0,151	-0,713	0,124	0,000	9,990	0,295
160	-0.101	0,712	-0.077	0.087	0.189	0.309	0.715	0,158	0,266	0,000	0,189	9,990	0,459
161	0.206	0,060	0.602	0.392	0.087	0.213	0.655	-0,019	-0,029	-0,104	0,087	9,990	0,373
162	0.206	0,528	-0.181	0.392	0.512	0.213	0.655	0,459	-0,029	0,251	0,870	9,990	0,788
163	0.170	-0,521	-0.443	0.443	-0.041	0.247	0.023	0,549	0,071	0,090	0,516	9,990	0,486
164	0.206	-0,248	0.149	0.392	0.087	0.213	0.655	0,459	-0,480	0,251	0,087	9,990	0,373
165	0,749	-0,248	0.149	0.834	0.087	0.213	0.266	-0,309	-0,480	0,251	0,512	9,990	0,788
166	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990
167	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990

	27	28	29	30	31	32	33	34	35	36	37	38	39
1	-0.131	0.027	-0.139	0.206	-0.592	-0.396	9.990	-0.571	0.037	-0.139	9.990	0.052	0.571
2	-0.298	-0.553	-0.247	0.253	0.141	-0.071	9.990	-0.071	0.071	-0.247	9.990	-0.223	0.071
3	-0.087	-0.468	0.487	0.071	-0.087	-0.177	9.990	-0.656	0.158	-0.017	9.990	-0.158	0.158
4	-0.091	-0.113	-0.081	-0.103	0.121	-0.158	9.990	-0.220	0.220	0.387	9.990	-0.436	0.220
5	-0.091	-0.113	-0.081	-0.103	0.356	0.046	9.990	0.356	0.220	0.387	9.990	-0.217	0.220
6	-0.060	-0.113	-0.247	-0.046	0.141	-0.071	9.990	0.486	0.071	0.246	9.990	-0.223	0.071
7	0.123	-0.018	0.555	0.096	0.528	0.266	9.990	-0.667	0.667	0.555	9.990	0.071	0.667
8	-0.191	-0.194	0.421	-0.080	0.662	0.430	9.990	-0.555	0.555	0.421	9.990	0.246	0.555
9	0.224	-0.087	-0.017	0.391	0.500	0.692	9.990	-0.158	0.158	-0.017	9.990	-0.158	0.158
10	0.318	-0.183	-0.080	0.294	0.389	0.492	9.990	-0.096	0.096	-0.080	9.990	-0.315	0.096
11	-0.191	0.305	0.421	0.424	0.305	-0.027	9.990	-0.555	0.555	0.421	9.990	-0.247	0.555
12	-0.131	-0.266	0.363	-0.106	0.290	0.087	9.990	-0.037	0.037	-0.139	9.990	0.052	0.037
13	-0.369	-0.087	0.487	0.071	0.500	0.113	9.990	-0.158	0.158	-0.017	9.990	0.521	0.158
14	-0.295	-0.471	0.191	-0.027	0.031	-0.252	9.990	0.123	-0.123	0.191	9.990	-0.170	-0.123
15	0.224	-0.087	0.487	0.071	0.232	0.403	9.990	-0.158	0.656	0.487	9.990	0.158	0.158
16	0.113	-0.387	0.553	-0.459	0.024	-0.031	9.990	-0.224	0.224	0.052	9.990	0.046	0.224
17	-0.131	-0.592	0.363	-0.479	0.027	0.087	9.990	-0.037	0.037	0.363	9.990	0.052	0.037
18	0.415	0.021	0.309	0.158	0.565	0.266	9.990	-0.459	0.835	0.783	9.990	0.041	0.459
19	0.295	0.662	0.421	0.424	0.305	-0.027	9.990	-0.555	0.555	0.421	9.990	-0.247	0.555
20	0.060	0.113	-0.246	0.315	0.346	-0.149	9.990	-0.486	0.486	0.625	9.990	-0.256	-0.071
21	0.630	0.389	-0.080	0.294	0.389	0.231	9.990	-0.096	0.613	0.734	9.990	-0.315	0.096
22	0.041	-0.037	-0.471	-0.034	-0.037	-0.052	9.990	-0.266	0.266	0.430	9.990	-0.291	0.266
23	0.401	0.505	0.623	0.305	-0.491	-0.217	9.990	-0.295	0.295	0.128	9.990	-0.090	0.295
24	0.415	0.565	0.783	0.662	0.021	0.266	9.990	-0.459	0.835	0.783	9.990	0.041	0.835
25	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
26	0.123	-0.018	0.885	0.613	-0.018	-0.312	9.990	-0.667	0.667	0.555	9.990	-0.486	0.667
27	1.000	0.726	-0.191	0.318	-0.031	0.252	9.990	-0.443	0.123	0.295	9.990	-0.060	0.123
28	0.726	1.000	-0.194	0.123	-0.060	0.194	9.990	-0.018	0.528	0.662	9.990	0.687	0.528
29	-0.191	-0.194	1.000	0.424	0.305	-0.027	9.990	-0.555	0.555	0.421	9.990	-0.247	0.555
30	0.318	0.123	0.424	1.000	0.389	-0.034	9.990	-0.096	0.613	0.424	9.990	-0.046	0.096
31	-0.031	-0.060	0.305	0.389	1.000	0.826	9.990	-0.018	0.528	0.662	9.990	0.409	-0.018
32	0.252	0.194	-0.027	-0.034	0.826	1.000	9.990	-0.312	0.266	0.430	9.990	0.738	0.266
33	9.990	9.990	9.990	9.990	9.990	9.990	1.000	9.990	9.990	9.990	9.990	9.990	9.990
34	0.443	0.018	-0.555	-0.096	0.018	0.312	9.990	1.000	-0.667	-0.555	9.990	0.486	-0.667
35	0.123	0.528	0.555	0.613	0.528	0.266	9.990	-0.667	1.000	0.885	9.990	0.071	0.667
36	0.295	0.662	0.421	0.424	0.662	0.430	9.990	-0.555	0.885	1.000	9.990	0.246	0.555
37	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	1.000	9.990	9.990
38	-0.060	0.687	-0.247	-0.046	0.409	0.738	9.990	0.486	0.071	0.246	9.990	1.000	0.071
39	0.123	0.528	0.555	0.096	-0.018	0.266	9.990	-0.667	0.667	0.555	9.990	0.071	1.000
40	-0.124	0.113	0.081	0.596	0.337	0.356	9.990	0.220	0.356	0.081	9.990	0.436	0.356
41	-0.588	0.305	0.421	-0.080	0.305	-0.027	9.990	-0.555	0.555	0.421	9.990	0.246	0.555
42	-0.223	0.356	0.052	-0.459	-0.387	0.628	9.990	-0.699	0.224	0.052	9.990	0.443	0.699
43	-0.223	0.356	0.553	-0.459	-0.387	0.628	9.990	-0.699	0.224	0.052	9.990	0.443	0.699
44	-0.223	0.356	0.553	-0.459	-0.387	0.628	9.990	-0.699	0.224	0.052	9.990	0.443	0.699
45	-0.223	0.356	0.553	-0.459	-0.387	0.628	9.990	-0.699	0.224	0.052	9.990	0.443	0.699
46	-0.223	0.356	0.553	-0.459	-0.387	0.628	9.990	-0.699	0.224	0.052	9.990	0.443	0.699
47	-0.025	0.505	0.128	-0.390	-0.491	0.545	9.990	-0.743	0.295	0.128	9.990	0.346	0.743
48	0.369	0.087	0.017	0.342	0.468	0.459	9.990	0.158	-0.158	0.017	9.990	-0.158	-0.158
49	0.369	0.087	-0.487	-0.071	0.468	0.177	9.990	0.158	-0.158	0.017	9.990	0.158	-0.158
50	-0.091	0.582	-0.081	0.165	0.582	0.248	9.990	-0.220	0.220	0.387	9.990	0.227	0.220
51	0.761	0.266	0.139	0.479	0.266	0.158	9.990	0.571	-0.037	0.139	9.990	-0.333	-0.037
52	0.217	0.198	0.305	0.123	-0.341	-0.266	9.990	0.018	-0.018	0.305	9.990	-0.113	0.528
53	0.027	-0.183	0.424	-0.568	-0.183	-0.034	9.990	-0.096	0.096	-0.080	9.990	-0.315	0.613
54	-0.252	0.266	0.027	-0.492	-0.196	-0.150	9.990	0.266	0.312	0.027	9.990	-0.149	0.312
55	-0.389	0.505	0.128	-0.151	-0.491	-0.217	9.990	-0.295	0.295	0.128	9.990	-0.090	0.743
56	0.113	0.356	0.052	-0.256	-0.554	-0.353	9.990	-0.699	0.224	0.052	9.990	0.046	0.224
57	0.079	0.471	-0.191	-0.242	-0.266	-0.172	9.990	0.443	0.123	0.295	9.990	0.170	0.123
58	-0.079	0.031	-0.295	-0.027	-0.217	-0.041	9.990	0.123	-0.123	-0.295	9.990	0.060	-0.123

	27	28	29	30	31	32	33	34	35	36	37	38	39
59	-0.087	0.232	-0.017	-0.517	-0.067	0.113	9.990	-0.158	0.158	0.487	9.990	-0.158	0.158
60	-0.007	0.288	-0.550	-0.422	-0.189	0.147	9.990	-0.172	0.172	0.342	9.990	0.087	0.172
61	-0.087	0.232	-0.017	-0.342	-0.087	0.113	9.990	-0.158	0.158	0.487	9.990	0.521	0.158
62	-0.127	-0.027	0.139	0.479	0.694	0.618	9.990	0.037	-0.037	0.139	9.990	0.209	-0.037
63	-0.060	-0.113	0.246	0.253	-0.113	0.149	9.990	0.486	0.071	-0.247	9.990	0.256	0.071
64	0.209	0.046	-0.136	0.097	0.528	0.348	9.990	-0.172	0.172	0.342	9.990	0.087	-0.400
65	0.332	0.121	-0.511	-0.596	-0.113	-0.158	9.990	-0.220	-0.356	-0.081	9.990	-0.642	0.220
66	0.468	-0.021	-0.309	0.209	-0.021	-0.266	9.990	0.459	-0.459	-0.309	9.990	-0.041	-0.835
67	-0.191	-0.194	0.878	0.734	0.305	-0.027	9.990	-0.555	0.555	0.421	9.990	-0.247	0.555
68	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
69	0.123	0.528	0.555	0.613	0.528	0.266	9.990	-0.667	1.000	0.885	9.990	0.071	0.667
70	0.379	0.682	0.027	-0.231	-0.421	0.052	9.990	0.266	0.312	0.471	9.990	0.071	0.312
71	0.029	0.287	-0.128	0.151	-0.158	-0.158	9.990	0.295	-0.295	-0.623	9.990	0.447	-0.295
72	0.124	0.356	-0.081	0.165	0.121	0.046	9.990	0.356	-0.356	-0.081	9.990	0.227	-0.356
73	0.191	-0.305	-0.421	-0.424	-0.305	-0.430	9.990	0.555	-0.885	-0.878	9.990	-0.246	-0.555
74	-0.101	-0.021	-0.309	-0.158	0.319	0.577	9.990	0.459	-0.459	-0.309	9.990	-0.041	-0.459
75	-0.124	0.113	-0.387	-0.437	-0.356	-0.248	9.990	-0.356	-0.220	-0.387	9.990	0.217	-0.220
76	0.124	0.582	-0.081	0.165	-0.337	-0.158	9.990	0.356	0.220	0.387	9.990	0.435	0.220
77	0.588	0.194	-0.421	0.080	-0.662	-0.430	9.990	0.555	-0.555	-0.421	9.990	-0.246	-0.555
78	0.443	-0.046	0.136	0.172	-0.288	0.060	9.990	0.172	0.400	0.136	9.990	0.140	0.400
79	-0.170	0.113	0.625	0.315	-0.141	-0.149	9.990	0.071	-0.071	-0.246	9.990	0.223	-0.071
80	-0.124	0.113	-0.387	0.359	0.113	0.158	9.990	0.220	0.356	0.511	9.990	0.436	-0.220
81	0.223	-0.024	-0.052	-0.179	-0.024	0.353	9.990	0.224	-0.699	-0.553	9.990	-0.046	-0.224
82	0.389	-0.505	-0.128	0.151	0.287	0.217	9.990	0.295	-0.743	-0.623	9.990	0.090	-0.743
83	0.091	0.113	0.081	-0.437	-0.356	-0.046	9.990	0.220	0.356	0.511	9.990	-0.227	0.356
84	-0.370	0.290	-0.139	-0.106	0.027	0.087	9.990	-0.037	0.037	-0.139	9.990	0.335	0.571
85	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
86	0.278	0.328	0.213	-0.309	0.328	-0.029	9.990	-0.373	0.373	0.699	9.990	0.220	0.373
87	0.007	0.189	0.136	-0.097	-0.288	-0.147	9.990	-0.400	0.400	0.136	9.990	0.140	-0.172
88	-0.206	0.328	0.213	-0.309	0.328	0.433	9.990	-0.373	0.373	0.213	9.990	0.461	0.788
89	-0.087	-0.087	-0.017	-0.517	-0.087	-0.177	9.990	-0.656	0.158	-0.017	9.990	0.521	0.158
90	-0.227	0.528	-0.550	0.097	0.046	0.147	9.990	-0.172	0.172	0.342	9.990	0.306	0.172
91	0.091	0.113	0.511	-0.165	0.113	0.158	9.990	-0.356	0.356	0.511	9.990	0.217	0.356
92	-0.369	-0.087	-0.017	0.071	-0.087	0.113	9.990	-0.158	0.158	0.487	9.990	0.158	0.158
93	-0.127	-0.027	-0.363	0.479	0.592	0.396	9.990	0.037	-0.037	0.139	9.990	0.443	-0.037
94	0.031	0.060	-0.305	0.535	0.060	0.266	9.990	0.528	0.018	0.194	9.990	0.346	0.018
95	0.124	-0.113	-0.081	-0.359	0.356	0.248	9.990	-0.220	0.220	0.387	9.990	0.227	-0.356
96	0.295	-0.266	-0.191	0.027	-0.031	0.252	9.990	-0.123	0.123	-0.191	9.990	0.170	0.123
97	-0.041	-0.194	-0.430	0.034	0.266	0.253	9.990	-0.312	-0.266	-0.430	9.990	0.071	0.312
98	-0.170	0.553	0.625	0.549	-0.141	-0.149	9.990	0.071	-0.071	-0.246	9.990	0.475	-0.071
99	-0.485	0.123	-0.080	-0.568	-0.535	-0.034	9.990	-0.613	0.096	-0.080	9.990	0.253	0.096
100	-0.217	-0.198	0.194	-0.613	-0.198	0.266	9.990	-0.018	0.018	0.194	9.990	-0.141	0.018
101	-0.127	0.592	-0.363	-0.206	-0.290	-0.087	9.990	0.037	-0.037	0.139	9.990	0.209	-0.571
102	-0.412	-0.288	0.136	-0.097	0.189	-0.147	9.990	0.172	0.400	0.530	9.990	-0.087	-0.172
103	0.613	0.415	-0.699	0.019	-0.328	0.029	9.990	0.373	-0.373	-0.213	9.990	0.266	-0.373
104	-0.091	0.356	-0.081	-0.103	-0.337	-0.158	9.990	0.356	0.220	0.387	9.990	0.435	0.220
105	-0.318	-0.389	0.080	-0.294	-0.389	-0.492	9.990	0.096	-0.613	-0.424	9.990	-0.690	-0.096
106	0.123	0.528	0.555	0.096	-0.018	0.266	9.990	-0.667	0.667	0.555	9.990	0.071	1.000
107	0.123	0.528	0.555	0.096	-0.018	0.266	9.990	-0.667	0.667	0.555	9.990	0.071	1.000
108	0.123	0.528	0.555	0.096	-0.018	0.266	9.990	-0.667	0.667	0.555	9.990	0.071	1.000
109	0.123	0.528	0.555	0.096	-0.018	0.266	9.990	-0.667	0.667	0.555	9.990	0.071	1.000
110	0.123	0.528	0.555	0.096	-0.018	0.266	9.990	-0.667	0.667	0.555	9.990	0.071	1.000
111	0.295	0.662	0.421	-0.080	0.305	0.430	9.990	-0.555	0.555	0.878	9.990	0.246	0.885
112	0.123	0.528	0.555	0.096	-0.018	0.266	9.990	-0.667	0.667	0.555	9.990	0.071	1.000
113	0.295	0.662	0.421	-0.080	0.305	0.430	9.990	-0.555	0.555	0.878	9.990	0.246	0.885
114	-0.191	0.662	0.421	-0.080	-0.194	-0.027	9.990	-0.555	0.555	0.421	9.990	0.246	0.885
115	0.295	0.662	0.421	-0.080	-0.194	0.430	9.990	-0.555	0.555	0.421	9.990	0.246	0.885
116	0.278	0.697	0.213	0.459	-0.415	0.433	9.990	-0.373	0.373	0.213	9.990	0.461	0.788

	27	28	29	30	31	32	33	34	35	36	37	38	39
117	0.101	0.565	0.309	0.662	-0.319	0.266	9.990	-0.459	0.459	0.309	9.990	0.369	0.835
118	0.224	0.232	-0.017	0.391	0.500	0.113	9.990	-0.158	0.158	-0.017	9.990	-0.158	0.656
119	0.295	0.305	0.421	0.424	0.305	0.430	9.990	-0.555	0.555	0.421	9.990	-0.247	0.885
120	0.224	0.232	-0.017	0.391	0.500	0.113	9.990	-0.158	0.158	-0.017	9.990	-0.158	0.656
121	0.123	0.528	-0.555	0.096	-0.018	0.266	9.990	-0.667	0.667	0.555	9.990	0.071	1.000
122	0.295	0.662	0.421	-0.080	-0.194	-0.027	9.990	-0.555	0.555	0.421	9.990	0.246	0.885
123	0.295	0.662	0.421	-0.080	-0.194	-0.027	9.990	-0.555	0.555	0.421	9.990	0.246	0.885
124	0.295	0.662	0.421	-0.080	-0.194	-0.027	9.990	-0.555	0.555	0.421	9.990	0.246	0.885
125	-0.468	0.021	0.309	-0.209	-0.319	0.266	9.990	-0.459	0.459	0.309	9.990	0.041	0.835
126	0.295	0.662	0.421	-0.080	-0.194	-0.027	9.990	-0.555	0.555	0.421	9.990	0.246	0.885
127	0.123	0.528	0.555	0.096	-0.018	0.266	9.990	-0.667	0.667	0.555	9.990	0.071	1.000
128	0.123	0.528	0.555	0.096	-0.018	0.266	9.990	-0.667	0.667	0.555	9.990	0.071	1.000
129	-0.191	0.305	0.421	-0.080	-0.194	-0.027	9.990	-0.885	0.555	0.421	9.990	-0.247	0.885
130	0.101	0.565	0.309	0.158	0.021	0.266	9.990	-0.459	0.835	0.783	9.990	0.041	0.835
131	-0.191	0.305	0.421	-0.080	-0.194	-0.027	9.990	-0.555	0.555	0.421	9.990	-0.247	0.885
132	0.123	0.528	0.555	0.096	-0.018	0.266	9.990	-0.667	0.667	0.555	9.990	0.071	1.000
133	0.123	0.528	0.555	0.096	-0.018	0.266	9.990	-0.667	0.667	0.555	9.990	0.071	1.000
134	-0.468	0.021	0.309	0.158	-0.319	-0.318	9.990	-0.459	0.459	0.309	9.990	0.041	0.835
135	0.123	0.528	0.555	0.096	-0.018	0.266	9.990	-0.667	0.667	0.555	9.990	0.071	1.000
136	0.123	0.528	0.555	0.096	-0.018	0.266	9.990	-0.667	0.667	0.555	9.990	0.071	1.000
137	0.278	0.697	0.213	-0.309	-0.415	-0.029	9.990	-0.373	0.373	0.213	9.990	0.461	0.788
138	0.113	0.024	0.805	0.179	0.356	-0.031	9.990	-0.224	0.224	0.553	9.990	-0.288	0.224
139	-0.588	-0.194	0.878	-0.080	0.662	0.430	9.990	-0.555	0.555	0.421	9.990	0.246	0.555
140	-0.266	-0.060	0.662	0.123	-0.060	0.194	9.990	-0.528	0.528	0.305	9.990	-0.113	-0.018
141	0.295	-0.194	0.878	0.424	-0.194	-0.471	9.990	-0.555	0.555	0.421	9.990	-0.625	0.555
142	-0.031	0.430	0.305	-0.535	0.198	-0.037	9.990	0.018	0.528	0.662	9.990	0.141	-0.018
143	-0.131	0.290	0.698	-0.106	0.027	-0.158	9.990	-0.037	0.037	0.363	9.990	-0.209	0.571
144	0.113	0.024	0.052	-0.256	-0.387	-0.353	9.990	-0.224	0.224	0.553	9.990	-0.288	0.224
145	-0.468	0.565	0.309	-0.209	0.021	-0.318	9.990	-0.839	0.459	0.783	9.990	0.041	0.459
146	-0.191	0.305	0.421	0.424	0.305	0.430	9.990	-0.555	0.555	0.421	9.990	0.246	0.555
147	-0.389	0.158	0.128	-0.390	-0.287	0.158	9.990	-0.743	0.295	0.623	9.990	-0.09	0.295
148	0.113	0.024	0.553	-0.256	-0.387	-0.031	9.990	-0.699	0.224	0.052	9.990	0.046	0.224
149	-0.223	0.024	0.052	0.179	-0.387	-0.031	9.990	-0.224	0.224	0.052	9.990	0.443	0.224
150	-0.206	-0.158	0.213	-0.019	-0.158	0.433	9.990	-0.373	0.373	0.213	9.990	0.220	0.373
151	0.401	0.780	0.128	-0.390	-0.491	0.545	9.990	-0.295	0.295	0.128	9.990	0.535	0.743
152	-0.206	-0.415	0.699	-0.019	0.328	0.433	9.990	-0.373	0.373	0.213	9.990	0.220	0.373
153	0.027	-0.183	-0.080	0.294	0.389	0.231	9.990	-0.096	0.613	0.424	9.990	0.253	0.096
154	-0.369	-0.468	0.487	-0.342	0.500	0.113	9.990	-0.158	0.158	0.487	9.990	0.158	0.158
155	0.569	-0.087	-0.017	-0.342	0.232	-0.177	9.990	-0.656	0.158	0.487	9.990	-0.434	0.158
156	-0.025	-0.287	0.623	-0.151	-0.287	-0.588	9.990	-0.743	0.295	0.623	9.990	-0.447	0.295
157	0.495	0.024	0.052	-0.459	0.024	-0.031	9.990	-0.224	0.224	0.052	9.990	0.046	0.224
158	-0.025	-0.287	0.128	-0.390	0.158	-0.217	9.990	-0.743	0.295	0.128	9.990	-0.090	0.295
159	-0.707	0.158	0.128	-0.390	0.158	0.158	9.990	-0.295	0.295	0.128	9.990	0.535	0.295
160	0.101	-0.319	0.309	0.662	0.565	0.539	9.990	-0.459	0.459	0.309	9.990	0.041	0.459
161	0.278	0.328	0.213	-0.309	-0.158	-0.480	9.990	-0.373	0.373	0.699	9.990	0.220	0.373
162	0.505	-0.158	0.699	0.779	0.328	0.433	9.990	-0.373	0.788	0.699	9.990	-0.266	0.373
163	0.060	-0.141	0.247	-0.253	0.113	0.291	9.990	0.071	-0.071	0.247	9.990	-0.256	0.486
164	-0.206	0.328	0.213	-0.019	0.328	-0.029	9.990	-0.373	0.373	0.699	9.990	0.220	0.373
165	-0.613	-0.415	0.699	-0.019	-0.158	-0.480	9.990	-0.373	0.373	0.213	9.990	-0.266	0.373
166	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
167	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990

	40	41	42	43	44	45	46	47	48	49	50	51	52
1	0.459	-0.139	0.426	0.426	0.426	0.426	0.426	0.565	0.409	0.409	0.016	-0.113	0.027
2	0.642	-0.625	-0.288	0.046	0.046	0.046	0.046	-0.090	-0.158	0.158	-0.217	-0.052	-0.113
3	0.241	-0.017	0.266	0.578	0.578	0.578	0.578	0.385	0.464	0.464	-0.241	0.011	-0.468
4	0.067	-0.511	-0.094	0.237	0.237	0.237	0.237	0.098	-0.047	0.241	0.139	-0.016	0.356
5	0.271	-0.511	-0.409	-0.094	-0.094	-0.094	-0.094	-0.274	-0.346	-0.047	-0.271	-0.016	-0.113
6	0.436	-0.625	-0.572	-0.288	-0.288	-0.288	-0.288	-0.447	-0.158	0.158	-0.217	0.209	0.409
7	-0.220	0.555	0.224	0.224	0.224	0.224	0.224	0.295	-0.158	-0.158	0.220	-0.037	-0.018
8	0.081	0.878	0.553	0.052	0.052	0.052	0.052	0.128	0.017	0.017	0.387	-0.363	-0.194
9	0.512	-0.017	0.266	0.266	0.266	0.266	0.266	0.385	0.266	0.464	0.346	0.409	-0.468
10	0.359	-0.080	0.179	0.179	0.179	0.179	0.179	0.305	0.342	0.517	0.165	0.479	-0.183
11	0.511	0.421	0.553	0.553	0.553	0.553	0.553	0.623	0.017	0.017	-0.081	-0.363	-0.194
12	0.459	-0.139	-0.325	0.098	0.098	0.098	0.098	-0.223	0.409	0.409	-0.228	0.191	-0.266
13	0.512	-0.017	-0.178	0.266	0.266	0.266	0.266	-0.071	0.266	0.266	0.047	0.011	-0.468
14	-0.305	-0.295	-0.495	-0.495	-0.495	-0.495	-0.495	-0.401	-0.369	-0.369	-0.524	-0.131	0.031
15	0.241	-0.017	-0.403	-0.178	-0.178	-0.178	-0.178	-0.332	0.464	0.464	-0.241	0.565	-0.087
16	0.094	0.052	-0.339	-0.087	-0.087	-0.087	-0.087	-0.266	0.178	0.178	-0.409	0.325	-0.387
17	-0.515	-0.139	-0.325	-0.325	-0.325	-0.325	-0.325	-0.223	-0.309	-0.309	-0.667	-0.113	-0.266
18	-0.213	0.309	-0.077	-0.077	-0.077	-0.077	-0.077	0.000	0.146	0.146	0.213	0.266	0.021
19	0.081	0.421	0.553	0.553	0.553	0.553	0.553	0.623	-0.487	0.017	0.387	0.139	-0.194
20	0.007	-0.246	-0.443	-0.443	-0.443	-0.443	-0.443	-0.346	0.521	0.521	0.217	0.335	-0.141
21	0.103	-0.080	0.179	0.179	0.179	0.179	0.179	0.305	-0.071	0.517	0.165	0.479	-0.183
22	-0.046	-0.471	-0.031	-0.031	-0.031	-0.031	-0.031	0.158	0.459	0.728	-0.158	0.396	0.194
23	-0.500	0.623	0.019	0.019	0.019	0.019	0.019	0.124	0.071	-0.689	-0.274	-0.229	0.505
24	0.369	0.309	0.317	0.317	0.317	0.317	0.317	0.409	0.146	-0.234	0.213	0.266	0.565
25	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
26	-0.220	0.555	0.224	0.224	0.224	0.224	0.224	0.295	-0.158	-0.656	-0.356	-0.037	0.528
27	-0.124	-0.588	-0.223	-0.223	-0.223	-0.223	-0.223	-0.029	0.369	0.369	-0.091	0.761	0.217
28	0.113	0.305	0.356	0.356	0.356	0.356	0.356	0.505	0.087	0.087	0.582	0.266	0.198
29	0.081	0.421	0.052	0.553	0.553	0.553	0.553	0.128	0.017	-0.487	-0.081	0.139	0.305
30	0.596	-0.080	-0.459	-0.459	-0.459	-0.459	-0.459	-0.390	0.342	-0.071	0.165	0.479	0.123
31	0.337	0.305	-0.387	-0.387	-0.387	-0.387	-0.387	-0.491	0.468	0.468	0.582	0.26'	-0.341
32	0.356	-0.027	0.628	0.628	0.628	0.628	0.628	0.545	0.459	0.177	0.248	0.158	-0.266
33	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
34	0.220	-0.555	-0.699	-0.699	-0.699	-0.699	-0.699	-0.743	0.158	0.158	-0.220	0.571	0.018
35	0.356	0.555	0.224	0.224	0.224	0.224	0.224	0.295	-0.158	-0.158	0.220	-0.037	-0.018
36	0.081	0.421	0.052	0.052	0.052	0.052	0.052	0.128	0.017	0.017	0.387	0.139	0.305
37	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
38	0.436	0.246	0.443	0.443	0.443	0.443	0.443	0.346	-0.158	0.158	0.227	-0.335	-0.113
39	0.356	0.555	0.699	0.699	0.699	0.699	0.699	0.743	-0.158	-0.158	0.220	-0.037	0.528
40	1.000	0.081	0.409	0.409	0.409	0.409	0.409	0.274	0.346	0.346	0.465	-0.228	0.113
41	0.081	1.000	0.553	0.052	0.052	0.052	0.052	0.128	-0.487	0.017	0.387	-0.698	-0.194
42	0.409	0.553	1.000	0.966	0.966	0.966	0.966	0.949	0.178	0.178	0.586	-0.682	0.024
43	0.409	0.052	0.966	1.000	1.000	1.000	1.000	0.949	0.178	0.178	0.586	-0.426	0.024
44	0.409	0.052	0.966	1.000	1.000	1.000	1.000	0.949	0.178	0.178	0.586	-0.426	0.024
45	0.409	0.052	0.966	1.000	1.000	1.000	1.000	0.949	0.178	0.178	0.586	-0.426	0.024
46	0.409	0.052	0.966	1.000	1.000	1.000	1.000	0.949	0.178	0.178	0.586	-0.426	0.024
47	0.274	0.128	0.949	0.949	0.949	0.949	0.949	1.000	0.071	0.071	0.500	-0.565	0.158
48	0.346	-0.487	0.178	0.178	0.178	0.178	0.178	0.071	1.000	0.163	-0.047	0.770	0.087
49	0.346	0.017	0.178	0.178	0.178	0.178	0.178	0.071	0.163	1.000	0.762	0.309	-0.232
50	0.465	0.387	0.586	0.586	0.586	0.586	0.586	0.500	-0.047	0.762	1.000	-0.266	0.3.6
51	-0.228	-0.698	-0.682	-0.426	-0.426	-0.426	-0.426	-0.565	0.770	0.309	-0.266	1.000	-0.027
52	0.113	-0.194	0.024	0.024	0.024	0.024	0.024	0.158	0.087	-0.232	0.356	-0.027	1.000
53	-0.437	-0.080	0.179	0.500	0.500	0.500	0.500	0.305	-0.391	0.342	0.437	0.479	0.123
54	0.248	0.471	0.353	0.353	0.353	0.353	0.353	0.217	-0.459	-0.177	0.540	-0.158	0.037
55	-0.500	0.623	0.019	0.019	0.019	0.019	0.019	0.124	0.071	-0.385	0.098	0.223	0.158
56	-0.237	0.052	0.363	0.363	0.363	0.363	0.363	0.473	-0.578	-0.266	0.237	-0.426	0.024
57	0.509	-0.191	-0.223	0.113	0.113	0.113	0.113	-0.025	0.369	0.369	0.124	0.131	0.471
58	0.332	-0.295	-0.113	-0.113	-0.113	-0.113	-0.113	0.025	-0.369	-0.369	0.091	-0.582	0.031

	40	41	42	43	44	45	46	47	48	49	50	51	52
59	-0.654	-0.017	-0.178	-0.178	-0.178	-0.178	-0.178	-0.071	-0,163	-0,163	-0,241	0,409	-0,087
60	-0.607	-0.136	-0.158	-0.158	-0.158	-0.158	-0.158	0.037	-0,287	0,019	0,027	0,299	-0,189
61	0.512	0,770	0.266	-0.178	-0.178	-0.178	-0.178	-0,071	-0,163	-0,163	0,047	-0,568	-0,087
62	-0.228	0,139	0.325	0.325	0.325	0.325	0.325	0,223	-0,409	0,309	0,459	-0,191	-0,290
63	-0.227	-0,247	-0.288	0.046	0.046	0.046	0.046	-0,090	-0,521	-0,158	-0,217	0,209	-0,113
64	0.183	0.342	-0.158	-0.158	-0.158	-0.158	-0.158	-0,332	0,019	0,795	0,430	-0,198	-0,409
65	-0.338	-0.511	0.237	0.237	0.237	0.237	0.237	0,500	-0,346	-0,047	0,139	-0,016	0,121
66	-0.369	-0.783	-0.762	-0.317	-0.317	-0.317	-0.317	-0,409	-0,146	0,234	-0,213	0,087	-0,021
67	0.081	0.421	0.052	0.052	0.052	0.052	0.052	0,128	0,017	-0,487	-0,081	0,139	0,662
68	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9,990	9,990	9,990	9,990	9,990	9,990
69	0.356	0.555	0.224	0.224	0.224	0.224	0.224	0,295	-0,158	-0,158	0,220	-0,037	-0,018
70	-0.158	0,027	0.031	0.031	0.031	0.031	0.031	0,217	0,403	-0,177	0,158	0,087	0,484
71	0.098	-0.128	-0.019	-0,019	-0.019	-0,019	-0.019	-0,124	-0,071	-0,071	0,274	-0,223	-0,158
72	0.067	-0.081	-0.409	-0.409	-0.409	-0.409	-0.409	-0,274	-0,047	-0,654	-0,271	-0,266	0,121
73	-0.511	-0.421	-0.553	-0.553	-0.553	-0.553	-0.553	-0,623	-0,017	-0,017	0,081	0,363	0,194
74	0.213	-0,783	0.077	0.077	0.077	0.077	0.077	0,000	0,712	-0,146	-0,213	0,613	-0,021
75	-0.067	0,081	0.094	0.094	0.094	0.094	0.094	0,274	-0,512	-0,241	0,067	-0,459	0,113
76	-0.338	0,387	-0.094	-0.409	-0.409	-0.409	-0.409	-0,274	-0,047	-0,047	-0,067	0,228	0,356
77	-0.081	-0.878	-0.553	-0.052	-0.052	-0.052	-0.052	-0,128	0,487	0,487	0,081	0,698	0,194
78	0.027	-0,342	0.158	0,158	0.158	0.158	0.158	0,332	-0,019	-0,019	-0,027	0,198	0,409
79	0.007	0,625	-0.046	-0.046	-0.046	-0.046	-0.046	-0,346	-0,158	-0,158	0,217	-0,443	0,553
80	-0.067	-0.387	-0.237	-0.237	-0.237	-0.237	-0.237	-0,098	0,346	-0,512	-0,338	0,016	0,337
81	-0.094	-0.052	0.339	0.339	0.339	0.339	0.339	0,266	0,266	-0,178	0,094	-0,325	0,387
82	0.098	-0.623	-0.019	-0.019	-0.019	-0.019	-0.019	-0,124	-0,071	-0,071	-0,500	-0,223	0,287
83	-0.067	0,081	0.094	0,094	0.094	0.094	0.094	0,274	0,047	-0,241	0,067	-0,228	0,545
84	0.848	0.363	0.682	0.426	0.426	0.426	0.426	0,565	0,409	-0,309	0,266	-0,376	0,518
85	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9,990	9,990	9,990	9,990	9,990	9,990
86	-0.384	0.213	-0.181	-0.181	-0.181	-0.181	-0.181	-0,104	0,248	-0,060	-0,087	0,364	0,328
87	-0.183	-0.342	0.158	0.464	0.464	0.464	0.464	0,332	-0,019	0,287	0,183	-0,057	0,189
88	-0.384	0.699	0.149	0.149	0.149	0.149	0.149	0,251	-0,528	-0,060	-0,087	-0,392	-0,158
89	-0.047	0.487	0.266	-0.178	-0.178	-0.178	-0.178	-0,071	0,266	0,266	0,047	-0,309	-0,468
90	0.387	-0.136	0.542	0.542	0.542	0.542	0.542	0,613	0,019	0,305	0,607	-0,198	0,288
91	-0.067	-0,387	0.094	0.409	0.409	0.409	0.409	0,274	0,654	0,346	0,271	0,266	0,337
92	0.241	-0,017	0.266	0.266	0.266	0.266	0.266	0,385	0,464	-0,163	0,047	0,011	0,500
93	0.515	0,139	-0.098	-0.098	-0.098	-0.098	-0.098	-0,229	-0,011	0,568	-0,016	-0,191	-0,518
94	0.121	0.194	-0.024	-0.356	-0.356	-0.356	-0.356	-0,158	0,232	-0,087	0,113	-0,266	0,730
95	0.067	-0.081	0.237	0.237	0.237	0.237	0.237	0,098	0,512	0,762	0,139	0,228	-0,113
96	0.305	0.295	0.495	0.113	0.113	0.113	0.113	0,401	-0,224	0,616	0,124	-0,127	-0,266
97	0.046	-0.430	0.353	0.353	0.353	0.353	0.353	0,588	0,403	0,113	-0,046	-0,158	0,266
98	0.227	0.247	-0.046	0.288	0.288	0.288	0.288	0,090	-0,158	0,158	0,217	0,052	0,113
99	-0.165	0.424	0.500	0.500	0.500	0.500	0.500	0,625	-0,071	-0,391	-0,103	-0,679	0,123
100	-0.337	-0.305	0.387	0.554	0.554	0.554	0.554	0,491	-0,468	-0,087	0,113	-0,266	0,341
101	0.016	-0.363	-0.098	0.325	0.325	0.325	0.325	0,223	-0,409	-0,011	-0,016	-0,191	-0,290
102	0.027	-0.342	-0.542	-0.176	-0.176	-0.176	-0.176	-0,452	-0,305	-0,305	-0,234	-0,299	0,189
103	-0.087	-0.213	0.181	-0.149	-0.149	-0.149	-0.149	0,104	-0,248	0,060	0,087	-0,364	-0,328
104	0.465	-0.081	0.237	0.237	0.237	0.237	0.237	0,098	-0,047	-0,346	-0,067	-0,266	0,356
105	0.165	-0.424	-0.179	0.256	0.256	0.256	0.256	0,151	-0,071	0,071	0,359	-0,106	0,654
106	0.356	0.555	0.699	0.699	0.699	0.699	0.699	0,743	-0,158	-0,158	0,220	-0,037	0,528
107	0.356	0.555	0.699	0.699	0.699	0.699	0.699	0,743	-0,158	-0,158	0,220	-0,037	0,528
108	0.356	0.555	0.699	0.699	0.699	0.699	0.699	0,743	-0,158	-0,158	0,220	-0,037	0,528
109	0.356	0.555	0.699	0.699	0.699	0.699	0.699	0,743	-0,158	-0,158	0,220	-0,037	0,528
110	0.356	0.555	0.699	0.699	0.699	0.699	0.699	0,743	-0,158	-0,158	0,220	-0,037	0,528
111	0.081	0.421	0.553	0.553	0.553	0.553	0.553	0,623	0,017	0,017	0,387	0,139	0,662
112	0.356	0.555	0.699	0.699	0.699	0.699	0.699	0,743	-0,158	-0,158	0,220	-0,037	0,528
113	0.081	0.421	0.553	0.553	0.553	0.553	0.553	0,623	0,017	0,017	0,387	0,139	0,662
114	0.081	0,878	0.553	0.553	0.553	0.553	0.553	0,623	-0,487	0,017	0,387	-0,363	0,305
115	0.081	0.421	0.805	0,805	0.805	0,805	0,805	0,841	-0,487	0,017	0,387	0,139	0,309
116	0.087	0.213	0,602	0.602	0,602	0,602	0,602	0,682	-0,528	-0,060	0,384	0,092	0,328

	40	41	42	43	44	45	46	47	48	49	50	51	52
117	0.369	0,309	0.317	0.317	0.317	0.317	0.317	0.409	-0,234	-0,234	0,213	-0,087	0,565
118	0.241	-0,017	-0.178	-0.178	-0.178	-0.178	-0.178	-0,071	0,464	0,266	0,346	0,565	0,232
119	0.511	0,421	0.553	0.553	0.553	0.553	0.553	0,623	0,017	0,017	0,387	0,139	0,305
120	0.241	-0,017	-0.178	-0.178	-0.178	-0.178	-0.178	-0,071	0,464	0,266	0,346	0,565	0,232
121	0.356	0,555	0.699	0.699	0.699	0.699	0.699	0,743	-0,158	-0,158	0,220	-0,037	0,528
122	0.511	0,421	0.553	0.553	0.553	0.553	0.553	0,623	0,017	0,017	0,387	0,139	0,662
123	0.511	0,421	0.553	0.553	0.553	0.553	0.553	0,623	0,017	0,017	0,387	0,139	0,662
124	0.081	0,421	0.553	0.553	0.553	0.553	0.553	0,623	0,017	0,017	-0,081	0,139	0,305
125	0.369	0,309	0.762	0.762	0.762	0.762	0.762	0,815	0,146	-0,234	-0,369	-0,087	0,565
126	0.081	0,421	0.553	0.553	0.553	0.553	0.553	0,623	0,017	0,017	-0,081	0,139	0,305
127	0.356	0,555	0.699	0.699	0.699	0.699	0.699	0,743	-0,158	-0,158	0,220	-0,037	0,528
128	0.356	0,555	0.699	0.699	0.699	0.699	0.699	0,743	-0,158	-0,158	0,220	-0,037	0,528
129	0.081	0,421	0.805	0.805	0.805	0.805	0.805	0,841	0,017	0,017	0,387	-0,363	0,305
130	0.369	0,309	0.317	0.317	0.317	0.317	0.317	0,409	0,146	0,146	0,500	0,266	0,021
131	0.081	0,421	0.553	0.553	0.553	0.553	0.553	0,623	0,017	-0,487	-0,081	0,139	0,662
132	0.356	0,555	0.699	0.699	0.699	0.699	0.699	0,743	-0,158	-0,158	0,220	-0,037	0,528
133	0.356	0,555	0.699	0.699	0.699	0.699	0.699	0,743	-0,158	-0,158	0,220	-0,037	0,528
134	0.369	0,309	0.317	0.317	0.317	0.317	0.317	0,409	-0,234	-0,234	0,213	-0,087	0,747
135	0.356	0,555	0.699	0.699	0.699	0.699	0.699	0,743	-0,158	-0,158	0,220	-0,037	0,528
136	0.356	0,555	0.699	0.699	0.699	0.699	0.699	0,743	-0,158	-0,158	0,220	-0,037	0,528
137	0.687	0,213	0.602	0.602	0.602	0.602	0.602	0,682	-0,060	-0,528	0,384	-0,392	0,697
138	-0.237	0,553	-0.339	-0.087	-0.087	-0.087	-0.087	-0,266	-0,266	0,178	0,586	-0,098	0,356
139	0.081	0,421	0.052	0.553	0.553	0.553	0.553	0,128	-0,487	-0,487	-0,081	-0,363	-0,194
140	-0.121	0,305	0.356	0.627	0.627	0.627	0.627	0,505	0,087	0,087	0,121	-0,027	-0,341
141	-0.387	0,421	0.052	0.052	0.052	0.052	0.052	0,128	-0,487	-0,487	-0,511	0,139	0,305
142	-0.356	0,305	-0.387	0.024	0.024	0.024	0.024	-0,287	0,087	-0,232	0,121	0,266	-0,060
143	-0.016	0,363	-0.325	0.098	0.098	0.098	0.098	-0,223	0,409	0,011	0,515	0,539	0,518
144	0.094	0,052	-0.339	-0.339	-0.339	-0.339	-0.339	-0,266	-0,266	0,403	0,237	0,325	0,356
145	-0.500	0,783	0.317	0.317	0.317	0.317	0.317	0,409	-0,234	0,146	0,500	-0,613	0,021
146	0.511	0,421	0.553	0.553	0.553	0.553	0.553	0,623	0,017	-0,487	0,387	-0,363	0,662
147	-0.500	0,128	0.755	0.755	0.755	0.755	0.755	0,826	0,071	0,071	0,098	-0,229	-0,287
148	0.094	0,553	0.662	0.363	0.363	0.363	0.363	0,473	0,403	-0,266	0,237	-0,426	0,356
149	-0.237	0,052	-0.087	-0.087	-0.087	-0.087	-0.087	0,019	-0,578	-0,578	-0,094	-0,098	-0,387
150	0.526	0,699	0.149	-0.181	-0.181	-0.181	-0.161	-0,104	-0,060	-0,528	-0,526	-0,392	-0,415
151	-0.098	0,623	0.755	0.755	0.755	0.755	0.755	0,826	-0,385	0,071	0,500	-0,229	0,158
152	0.687	0,699	0.149	0.149	0.149	0.149	0.149	-0,104	0,248	0,248	-0,087	0,092	-0,415
153	-0.437	-0,080	-0.459	-0.459	-0.459	-0.459	-0.459	-0,390	-0,391	-0,071	-0,103	0,106	-0,535
154	-0.047	-0,017	-0.403	-0.178	-0.178	-0.178	-0.178	-0,332	0,266	-0,163	0,047	0,409	0,500
155	-0.346	-0,017	-0.178	-0.178	-0.178	-0.178	-0.178	-0,071	0,266	0,464	0,346	0,409	0,232
156	-0.500	0,128	0.019	0.019	0.019	0.019	0.019	0,124	0,071	-0,385	-0,274	-0,229	0,505
157	-0.237	0,553	0.363	-0.087	-0.087	-0.087	-0.087	0,019	-0,266	0,403	0,237	0,325	0,024
158	-0.649	0,128	0.019	0.019	0.019	0.019	0.019	0,124	-0,385	0,071	-0,274	-0,229	-0,491
159	-0.098	0,841	0.473	0.019	0.019	0.019	0.019	0,124	-0,887	-0,385	0,098	-0,816	-0,491
160	0.369	0,309	-0.077	-0.077	-0.077	-0.077	-0.077	0,000	0,146	0,146	0,213	0,266	0,021
161	-0.384	0,213	-0.181	-0.181	-0.181	-0.181	-0.181	-0,104	-0,528	-0,060	-0,087	-0,392	0,328
162	0.087	0,213	-0.181	-0.181	-0.181	-0.181	-0.181	-0,104	0,248	-0,060	-0,087	0,364	-0,158
163	-0.217	0,247	0.572	0.288	0.288	0.288	0.288	0,447	0,521	0,158	-0,007	0,335	0,113
164	0.087	0,699	-0.181	-0.181	-0.181	-0.181	-0.181	-0,104	-0,528	-0,060	0,384	-0,392	-0,158
165	-0.384	0,213	-0.181	-0.181	-0.181	-0.181	-0.181	-0,104	-0,528	-0,820	-0,526	-0,392	-0,158
166	9.990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990
167	9.990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990

	53	54	55	56	57	58	59	60	61	62	63	64	65
1	-0.479	-0.087	-0.223	0.098	-0.131	-0.127	-0.409	-0.057	-0.409	-0.113	0.052	-0.057	-0.228
2	-0.046	0.071	-0.447	0.046	0.170	0.060	-0.434	0.087	-0.434	0.209	0.256	0.306	-0.217
3	-0.342	-0.403	-0.332	-0.178	0.224	-0.569	-0.266	-0.795	-0.266	-0.309	-0.158	-0.019	0.047
4	0.165	0.158	-0.274	-0.094	0.124	-0.124	-0.241	0.234	-0.762	0.459	0.007	0.430	0.139
5	0.165	0.158	-0.274	-0.409	0.124	0.091	0.346	0.027	-0.241	0.228	0.435	0.234	0.338
6	-0.046	0.071	-0.447	-0.288	0.578	0.060	0.158	-0.140	-0.434	-0.052	0.256	0.087	0.227
7	0.613	-0.266	0.295	0.224	-0.443	0.443	0.158	0.172	0.158	-0.037	0.071	0.172	0.220
8	0.424	0.027	0.128	0.052	-0.588	0.191	-0.017	-0.136	0.487	0.139	-0.247	0.342	-0.081
9	0.071	-0.403	-0.332	-0.178	-0.087	0.369	0.163	-0.305	-0.266	0.409	0.158	0.287	0.346
10	-0.022	-0.492	-0.390	-0.256	0.027	0.242	0.071	-0.422	-0.342	0.106	-0.046	0.097	0.437
11	-0.080	-0.430	0.128	0.052	0.295	0.588	-0.017	-0.550	-0.017	0.139	-0.247	0.342	-0.081
12	-0.106	-0.568	-0.443	-0.325	0.682	0.370	-0.011	-0.715	-0.011	-0.376	0.052	-0.057	0.266
13	0.071	-0.403	-0.332	-0.178	0.569	0.369	-0.266	-0.795	-0.266	0.011	0.521	-0.019	0.047
14	-0.027	-0.379	0.025	-0.495	-0.079	0.295	0.369	0.227	-0.224	0.127	0.060	0.007	0.091
15	-0.342	-0.403	-0.332	-0.403	0.682	-0.569	0.163	-0.305	-0.266	-0.309	0.158	-0.019	-0.241
16	0.179	-0.295	-0.266	-0.087	0.495	0.223	0.266	-0.464	0.266	-0.682	0.046	-0.158	0.586
17	-0.106	-0.332	-0.223	-0.325	-0.131	0.131	0.309	0.198	-0.011	0.191	0.052	-0.057	0.016
18	0.158	-0.266	0.000	-0.077	0.101	-0.101	-0.146	0.158	-0.146	-0.087	0.041	0.158	0.213
19	0.424	0.027	0.128	0.553	-0.191	0.191	0.487	-0.136	-0.017	0.139	-0.247	-0.136	0.387
20	-0.585	-0.291	-0.346	-0.046	0.535	-0.298	0.158	-0.306	-0.158	-0.209	-0.256	-0.087	0.436
21	-0.022	0.034	-0.390	-0.256	0.027	-0.318	0.071	-0.172	-0.342	0.479	-0.046	0.379	0.437
22	-0.034	-0.528	0.158	-0.667	0.452	-0.252	0.403	0.348	-0.459	-0.087	-0.071	0.147	0.248
23	-0.390	-0.158	0.571	0.019	-0.025	0.025	-0.332	-0.332	0.385	-0.229	-0.090	-0.332	-0.274
24	0.158	0.318	0.409	-0.077	0.101	-0.415	-0.146	0.158	-0.146	0.266	0.369	-0.418	-0.369
25	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
26	0.096	-0.266	0.295	0.224	-0.443	-0.123	0.158	-0.400	0.158	-0.037	0.071	-0.400	-0.356
27	0.027	-0.252	-0.389	0.113	0.079	-0.079	-0.087	-0.007	-0.087	-0.127	-0.060	0.209	0.332
28	-0.183	0.266	0.505	0.356	0.471	0.031	0.232	0.288	0.232	-0.027	-0.113	0.046	0.121
29	0.424	0.027	0.128	0.052	-0.191	-0.295	-0.017	-0.550	-0.017	0.139	0.246	-0.136	-0.511
30	-0.568	-0.492	-0.151	-0.256	-0.242	-0.027	-0.517	-0.422	-0.342	0.479	0.253	0.097	-0.596
31	-0.183	-0.194	-0.491	-0.554	-0.266	-0.217	-0.087	-0.189	-0.087	0.694	-0.113	0.528	-0.113
32	-0.034	-0.150	-0.217	-0.353	-0.172	-0.041	0.113	0.147	0.113	0.618	0.149	0.348	-0.158
33	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
34	-0.096	0.266	-0.295	-0.699	0.443	0.123	-0.158	-0.172	-0.158	0.037	0.486	-0.172	-0.220
35	0.096	0.312	0.295	0.224	0.123	-0.123	0.158	0.172	0.158	-0.037	0.071	0.172	-0.356
36	-0.080	0.027	0.128	0.052	0.295	-0.295	0.487	0.342	0.487	0.139	-0.247	0.342	-0.081
37	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
38	-0.315	-0.149	-0.090	0.046	0.170	0.060	-0.158	0.087	0.521	0.209	0.256	0.087	-0.642
39	0.613	0.312	0.743	0.224	0.123	-0.123	0.158	0.172	0.158	-0.037	0.071	-0.400	0.220
40	-0.437	0.248	-0.500	-0.237	0.509	0.332	-0.654	-0.607	0.512	-0.228	-0.227	0.183	-0.338
41	-0.080	0.471	0.623	0.052	-0.191	-0.295	-0.017	-0.136	0.770	0.139	-0.247	0.342	-0.511
42	0.179	0.353	0.019	0.363	-0.223	-0.113	-0.178	-0.158	0.266	0.325	-0.288	-0.158	0.237
43	0.500	0.353	0.019	0.363	0.113	-0.113	-0.178	-0.158	-0.178	0.325	0.046	-0.158	0.237
44	0.500	0.353	0.019	0.363	0.113	-0.113	-0.178	-0.158	-0.178	0.325	0.046	-0.158	0.237
45	0.500	0.353	0.019	0.363	0.113	-0.113	-0.178	-0.158	-0.178	0.325	0.046	-0.158	0.237
46	0.500	0.353	0.019	0.363	0.113	-0.113	-0.178	-0.158	-0.178	0.325	0.046	-0.158	0.237
47	0.305	0.217	0.124	0.473	-0.025	0.025	-0.071	0.037	-0.071	0.223	-0.090	-0.332	0.500
48	-0.391	-0.459	0.071	-0.578	0.369	-0.369	-0.163	-0.287	-0.163	-0.409	-0.521	0.019	-0.346
49	0.342	-0.177	-0.385	-0.266	0.369	-0.369	-0.163	0.019	-0.163	0.309	-0.158	0.795	-0.047
50	0.437	0.540	0.098	0.237	0.124	0.091	-0.241	0.027	0.047	0.459	-0.217	0.430	0.139
51	0.479	-0.158	0.223	-0.426	0.131	-0.582	0.409	0.299	-0.568	-0.191	0.209	-0.198	-0.016
52	0.123	0.037	0.158	0.024	0.471	0.031	-0.087	-0.189	-0.087	-0.290	-0.113	-0.409	0.121
53	1.000	0.778	0.625	0.179	0.027	-0.027	0.391	0.370	0.517	0.106	0.585	0.172	0.709
54	0.778	1.000	0.588	0.353	0.172	-0.172	-0.113	0.060	0.177	-0.158	0.291	-0.147	0.158
55	0.625	0.588	1.000	0.019	0.401	0.025	0.385	0.613	-0.071	-0.229	0.346	-0.332	0.098
56	0.179	0.353	0.019	1.000	-0.223	0.518	-0.178	0.176	-0.178	-0.098	0.046	0.176	0.237
57	0.027	0.172	0.401	-0.223	1.000	0.146	0.224	-0.443	0.569	-0.760	-0.298	-0.227	0.124
58	-0.027	-0.172	0.025	0.518	0.146	1.000	0.087	0.007	0.087	-0.370	-0.385	0.227	0.305

	53	54	55	56	57	58	59	60	61	62	63	64	65
59	0.391	-0.113	0.385	-0.178	0.224	0.087	1,000	0.613	0,163	-0,568	-0,434	-0,565	0,745
60	0.379	0.060	0.613	0.176	-0.443	0.007	0.613	1,000	-0,305	0,299	0.087	0.322	0,027
61	-0.517	0.177	-0.071	-0.178	0.569	0.087	0.163	-0,305	1,000	-0,568	-0,667	-0,019	0,047
62	0.106	-0.158	-0.229	-0.098	-0.760	-0.370	-0.568	0,299	-0,568	1,000	0,644	0,715	-0,515
63	0.585	0.291	0.346	0.046	-0.298	-0.385	-0,434	0,087	-0,667	0.644	1,000	0.087	-0,436
64	-0.172	-0.147	-0.332	0.176	-0.227	0.227	-0.565	0.322	-0,019	0,715	0.087	1.000	-0.387
65	0.709	0.158	0.098	0.237	0.124	0.305	0.745	0,027	0,047	-0,515	-0.436	-0.387	1,000
66	-0.158	-0.577	-0.409	0.077	0.468	0.415	0.146	-0,158	-0,234	-0,266	-0,041	0.418	0,369
67	-0.080	-0.430	0.128	0.052	-0.191	-0.295	-0.017	-0,550	-0,017	0,139	0,246	-0,550	-0,511
68	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9,990	9,990	9,990	9,990	9,990	9,990
69	0.096	0,312	0.295	0.224	0.123	-0.123	0.158	0,172	0,158	-0,037	0,071	0,172	-0,356
70	0.295	0,150	0.713	0.031	0.572	0.452	0.459	0,266	0,177	-0,396	0,071	0,060	0,158
71	-0.305	-0,217	-0.124	0.266	0.025	0.401	-0.385	-0,037	0,071	-0,223	-0,346	-0,452	-0,500
72	-0.596	-0,440	0.098	-0.094	-0.091	0.697	0.346	0,027	0,346	-0,266	0.007	0,234	0,139
73	0.080	-0,027	-0.128	-0.052	-0.295	-0.191	0.017	0,136	0,017	-0,139	-0,246	-0,342	0,511
74	-0.158	-0.318	-0.409	-0.317	-0.415	0.101	0.146	0,418	-0,712	0,087	-0,041	-0,158	0,369
75	0.103	0,046	-0.098	0,705	0.305	0.332	0.512	-0,027	0,512	-0,667	-0,227	-0,430	0,465
76	-0.103	-0,046	0,649	-0,094	0.124	-0.332	0.654	0,430	0,047	-0,266	-0,217	-0,387	-0,271
77	0.080	-0,027	-0,128	-0,052	0.588	-0.191	-0.487	0,136	-0,487	-0,139	0,625	0,136	0,081
78	0.172	0.147	-0.037	0.158	0.443	-0.227	-0.287	-0,322	0,019	-0,299	0,140	-0,678	-0,027
79	-0.253	-0,071	0,090	-0,046	0.060	-0.060	-0.521	-0,682	0,158	0.052	0,223	-0,087	-0,435
80	-0.437	-0,540	-0.098	-0.586	0.091	0.124	0.241	-0,027	-0,047	-0,228	-0,007	-0,430	-0,139
81	-0.179	-0,353	-0,019	0,087	-0,495	0.113	-0,266	0,158	0,178	0,426	-0,443	0.464	-0,237
82	-0.305	-0,713	-0,826	0,266	-0,401	0,401	0,071	-0,613	0,071	-0,223	-0,346	0,332	0,274
83	0.359	0,248	0,629	-0,237	0,697	0,332	0,241	-0,027	0,512	-0,459	-0,007	-0,234	0,465
84	-0.106	0,396	0,229	0,098	0,682	0,370	-0,409	-0,521	0,309	-0,376	-0,209	-0,299	0,016
85	9.990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990
86	-0.309	0.029	-0.104	0.149	-0.206	-0.278	0.060	0,545	0,060	0.092	-0.266	0,332	-0,526
87	0.422	-0,060	-0,037	0,740	0.007	0.209	0.019	0,097	-0,715	-0,057	0,369	0,309	-0,027
88	-0.019	0,029	0,682	-0,181	-0,206	-0,278	0,060	0,545	0,060	0,364	0,220	-0,146	-0,087
89	-0.342	-0,113	-0,332	0,578	-0,087	0,087	-0,266	-0,019	0,163	-0,309	0,158	0,287	0,047
90	0.097	-0,147	0,452	-0,158	0,412	0,443	0,613	0,512	0,287	-0,198	-0,590	-0,097	0,234
91	0.103	-0,158	-0,500	0,094	0,305	-0,305	-0,346	-0,027	-0,654	0,515	0,436	0,183	-0,338
92	0.071	-0,113	0,385	-0,403	0,682	0,087	0,480	-0,305	0,480	-0,568	-0,434	-0,565	0,047
93	-0.468	-0,618	-0,229	-0,426	0,131	-0,131	-0,309	-0,198	0,409	0,376	-0,052	0,521	-0,016
94	-0.389	-0,037	0,491	-0,356	0,266	-0,031	-0,232	-0,046	0,087	0,027	-0,141	-0,046	-0,582
95	-0.103	-0,248	-0,743	0,237	0,124	-0,332	0,047	-0,183	0,047	-0,016	-0,217	0,234	-0,271
96	0.027	0,172	-0,389	0,495	-0,146	-0,295	-0,616	-0,007	0,224	0,370	0,385	0,412	-0,305
97	-0.231	-0,615	-0,158	-0,628	-0,041	0,041	-0,113	-0,147	-0,692	0,087	0,071	-0,147	0,356
98	-0.253	-0,291	0,090	0,288	0,060	0,170	-0,158	-0,306	-0,521	0,306	0,475	0,140	-0,622
99	-0.415	0,034	0,305	0,179	0,318	0,242	0,071	0,379	0,071	-0,206	-0,315	0,097	-0,103
100	0.654	0,194	0,287	-0,024	0,480	-0,031	0,468	0,189	0,087	0,027	0,113	-0,288	0,545
101	0.106	0,087	0,223	0,509	0,761	0,399	0,565	0,057	0,409	-0,539	-0,335	0,057	0,228
102	-0.097	-0,060	-0,452	-0,176	0,443	0,209	0,019	-0,116	-0,287	0,198	0,140	0,097	-0,027
103	0.019	-0,029	0,104	0,181	-0,278	0,505	0,248	0,570	0,248	-0,092	-0,220	0,570	0,526
104	0.165	0,540	0,098	0,237	0,332	0,091	-0,241	-0,183	0,346	-0,266	0,227	0,027	-0,271
105	0.415	0,231	0,151	-0,179	0,485	0,318	-0,391	-0,097	-0,071	-0,106	0,046	0,172	0,359
106	0.613	0,312	0,743	0,224	0,123	-0,123	0,158	0,172	0,158	-0,037	0,071	-0,400	0,220
107	0.613	0,312	0,743	0,224	0,123	-0,123	0,158	0,172	0,158	-0,037	0,071	-0,400	0,220
108	0.613	0,312	0,743	0,224	0,123	-0,123	0,158	0,172	0,158	-0,037	0,071	-0,400	0,220
109	0.613	0,312	0,743	0,224	0,123	-0,123	0,158	0,172	0,158	-0,037	0,071	-0,400	0,220
110	0.613	0,312	0,743	0,224	0,123	-0,123	0,158	0,172	0,158	-0,037	0,071	-0,400	0,220
111	0.424	0,027	0,623	0,052	0,295	-0,295	0,487	0,342	0,487	0,139	-0,247	-0,136	0,387
112	0.613	0,312	0,743	0,224	0,123	-0,123	0,158	0,172	0,158	-0,037	0,071	-0,400	0,220
113	0.424	0,027	0,623	0,052	0,295	-0,295	0,487	0,342	0,487	0,139	-0,247	-0,136	0,387
114	0.424	0,471	0,841	0,052	0,295	-0,295	-0,017	0,342	0,487	0,139	0,246	-0,136	-0,081
115	0.734	0,471	0,623	0,553	-0,191	-0,295	0,487	0,342	-0,017	0,139	0,246	-0,550	0,387
116	0.459	0,029	0,682	0,602	-0,613	0,206	0,060	0,545	-0,248	0,364	0,461	-0,146	-0,087

	53	54	55	56	57	58	59	60	61	62	63	64	65
117	0.158	•0,266	0.815	0,317	-0.468	0,468	-0,146	0,459	-0,146	0,266	0,369	0,158	-0,369
118	0.391	•0,113	0.385	-0.403	0.224	-0.224	0.163	•0.305	•0,464	0,011	0,521	•0,305	0,654
119	0.424	0,471	0.623	0.052	-0.191	-0.295	-0,017	•0,134	•0,017	0,139	0,246	-0,136	0,387
120	0.391	-0,113	0.385	-0.403	0.224	-0.224	0.163	-0,305	•0,464	0,011	0,521	•0,305	0,654
121	0.613	0,312	0.743	0.224	0.123	-0.123	0.158	0,172	0,158	-0,037	0,071	•0,400	0,220
122	0.424	0,471	0.623	0.553	0.295	0.191	-0.017	0,342	•0,017	-0,363	-0,247	•0,136	-0,081
123	0.424	0,471	0.623	0.553	0.295	0.191	-0.017	0,342	•0,017	-0,363	-0,247	•0,136	-0,081
124	0.424	0.027	0.623	0.052	0.295	-0.295	0.487	-0,136	•0,017	-0,363	0,246	•0,550	0,387
125	0.662	0,318	0.815	-0.077	0.415	-0.101	0.234	0,158	-0,146	-0,087	0,369	-0,418	0,213
126	0.424	0.027	0.623	0.052	0.295	-0.295	0.487	-0,136	•0,017	-0,363	0,246	-0,550	0,387
127	0.613	0,312	0.743	0.224	0.123	-0.123	0.158	0,172	0,158	-0,037	0,071	•0,400	0,220
128	0.613	0,312	0.743	0.224	0.123	-0.123	0.158	0,172	0,158	-0,037	0,071	•0,400	0,220
129	0.424	0.027	0.623	0.553	-0.191	-0.295	-0,017	0,342	•0,017	0,139	-0,247	•0,136	0,387
130	0.662	0,577	0.815	-0.077	0.415	-0.101	0.234	0,459	-0,146	-0,087	0,041	•0,418	0,213
131	0.734	0,471	0.841	0.052	0.295	-0.295	0.487	0,342	•0,017	-0,363	0,246	-0,550	0,387
132	0.613	0,312	0.743	0.224	0.123	-0.123	0.158	0,172	0,158	•0,037	0,071	•0,400	0,220
133	0.613	0,312	0.743	0.224	0.123	-0.123	0.158	0,172	0,158	-0,037	0,071	•0,400	0,220
134	0.662	0,318	0.815	-0.077	0.101	-0.101	0.234	0,459	•0,146	-0,087	0,369	•0,418	0,213
135	0.613	0,312	0.743	0.224	0.123	-0.123	0.158	0,172	0,158	-0,037	0,071	•0,400	0,220
136	0.613	0,312	0.743	0.224	0.123	-0.123	0.158	0,172	0,158	-0,037	0,071	•0,400	0,220
137	-0.019	0.654	0.251	0.602	0.505	0.613	-0.248	•0,146	0,528	-0,738	-0,266	•0,570	0,384
138	0.179	0,353	0,019	-0.087	0.113	-0.495	-0.178	-0,464	0,266	0,509	0,443	0,542	-0,094
139	0.424	0,027	0.128	0.052	-0.191	0.191	0.487	•0.136	•0,017	0,139	•0,247	-0,136	-0,081
140	0.123	0.266	0.158	0.024	-0.031	-0.726	-0.087	0,046	-0,468	0,592	0,687	0,288	-0,337
141	0.424	0,027	0.128	0.052	-0.588	-0.295	-0,017	-0,136	•0,017	0,139	0,246	•0,136	-0,081
142	0.389	0,484	0.158	-0.554	0.217	-0.471	0.232	0,288	0,232	-0,027	0,409	0,046	0,121
143	0.468	0,618	0.816	-0.325	0.399	-0.399	0.309	0,198	•0,011	-0,113	0,052	•0,057	0,016
144	0.179	0.031	0.019	-0.087	0.113	0.518	0.578	0,668	0,266	-0,426	-0,572	0,542	0,237
145	-0.209	-0.266	0.409	0.317	0.101	-0.415	0.234	0,459	0,712	0,266	•0,516	0,459	0,213
146	-0.080	0,027	0.128	0.052	0.295	0.191	-0.017	-0,550	0,487	-0,363	-0,247	•0,550	-0,081
147	-0.151	•0,158	-0.191	0.473	-0.389	-0.401	0.385	0,452	-0,071	0,443	-0,090	0,037	0,098
148	-0.459	0.031	-0.266	0.363	-0.223	-0.113	-0.403	•0,158	0,266	•0,098	-0,572	0,176	-0,409
149	0.179	0.031	0.019	0.662	-0.774	0.518	-0.178	0,542	-0,178	0,325	0,595	•0,158	-0,094
150	-0.309	0.029	0.251	0.602	-0.206	0.613	0.060	•0,146	0,820	•0,392	-0,266	0,332	-0,087
151	0.305	0,588	0.571	0.019	0.401	-0.401	-0.071	0,452	0,385	0,223	0,346	•0,332	0,098
152	-0.019	0.029	-0.104	-0.181	0.278	-0.278	0.060	•0,570	0,820	-0,392	-0,655	0,332	-0,526
153	0.294	-0.231	0.305	-0.256	-0.695	0.485	0.071	0,754	-0,517	0,479	0,253	0,379	-0,103
154	0.391	-0,113	-0.071	-0.178	0.569	-0.224	0.163	-0,305	0,163	-0,309	0,158	•0,305	0,346
155	0.071	-0.113	-0.332	0.266	-0.369	-0.224	-0.266	0,287	•0,266	0,011	-0,434	0,613	0,654
156	-0.390	•0.545	-0.191	0.473	-0.025	-0.401	-0.071	•0,332	0,385	-0,229	-0,447	•0,332	0,500
157	0.500	0.353	-0.266	0.363	-0.518	-0.113	-0.178	0,176	-0,178	•0,098	-0,288	0,176	0,237
158	0.305	-0.545	-0.191	0.019	-0.707	0.025	0.385	0,452	-0,332	0,223	•0,090	0,037	0,649
159	-0.151	0,588	0.124	0.473	-0.389	0.025	0.385	0,037	0,689	0,223	-0,090	•0,332	0,098
160	-0.209	-0.266	0.000	-0.077	0.101	-0.415	-0.146	-0,418	-0,146	0,266	0,369	0,158	-0,369
161	-0.019	0,029	-0.104	0.602	0.505	0.206	0.528	•0.570	0,528	-0,392	0,220	•0,146	0,583
162	-0.309	0,029	-0.104	-0.181	-0.206	-0.505	-0.248	•0,146	-0,248	0,364	0,461	0,332	-0,526
163	0.046	0,149	0.090	-0.443	-0.385	-0.535	0.158	•0,087	•0,158	0,335	-0,023	-0,306	•0,007
164	-0.309	0,480	0.251	0.149	0.278	-0.278	0.060	•0,146	0,820	0,092	0,220	0,332	0,384
165	-0.019	0,029	0.251	0.149	-0.206	0.613	0.528	•0,146	0,060	-0,392	-0,266	•0,718	0,384
166	9.990	9,990	9.990	9.990	9.990	9.990	9.990	9,990	9,990	9,990	9,990	9,990	9,990
167	9,990	9,990	9.990	9.990	9.990	9.990	9.990	9,990	9,990	9,990	9,990	9,990	9,990

	66	67	68	69	70	71	72	73	74	75	76	77	78
1	-0.613	-0.139	9.990	0.037	-0.087	-0.229	0.016	-0.363	-0.087	-0.016	0.016	0.139	-0.459
2	-0.041	-0.247	9.990	0.071	-0.562	-0.346	-0.217	-0.246	-0.041	-0.007	-0.642	0.247	-0.087
3	0.146	-0.017	9.990	0.158	-0.403	-0.385	-0.241	-0.487	-0.234	-0.047	-0.241	0.017	-0.287
4	-0.213	-0.511	9.990	0.220	-0.248	-0.649	-0.271	-0.387	0.369	-0.523	-0.067	0.081	-0.430
5	-0.213	-0.511	9.990	0.220	-0.046	-0.649	0.338	-0.387	0.369	-0.338	-0.465	0.081	-0.430
6	-0.041	-0.247	9.990	0.071	-0.149	-0.535	0.007	-0.246	0.516	-0.227	-0.217	0.247	-0.306
7	-0.459	0.555	9.990	0.667	0.312	-0.295	0.220	-0.555	-0.459	0.356	-0.356	-0.555	-0.172
8	-0.783	0.421	9.990	0.555	0.027	-0.128	-0.081	-0.421	-0.309	0.081	-0.081	-0.878	-0.342
9	0.146	0.487	9.990	0.158	-0.113	-0.385	0.346	-0.487	0.146	0.241	-0.762	0.017	-0.287
10	0.209	0.424	9.990	0.096	-0.231	-0.305	0.165	-0.424	0.209	0.103	-0.596	0.080	-0.097
11	-0.309	0.421	9.990	0.555	0.027	-0.623	0.387	-0.878	-0.309	-0.387	-0.511	-0.421	-0.342
12	0.266	0.363	9.990	0.037	-0.087	0.223	0.266	-0.363	0.266	0.228	-0.667	0.139	-0.198
13	0.146	0.487	9.990	0.158	-0.113	0.071	0.346	-0.487	0.146	0.241	-0.762	0.017	-0.287
14	0.415	0.191	9.990	-0.123	-0.172	-0.707	0.509	-0.191	0.415	-0.509	0.091	-0.191	-0.007
15	0.146	0.487	9.990	0.656	-0.113	0.332	-0.512	-0.487	0.146	-0.047	0.047	0.017	0.305
16	0.077	0.052	9.990	0.224	0.031	0.266	0.237	-0.052	0.077	0.409	-0.409	-0.052	-0.176
17	0.266	0.363	9.990	0.037	-0.087	-0.565	0.266	-0.363	0.266	-0.515	0.016	-0.363	0.299
18	-0.189	0.309	9.990	0.835	0.318	0.000	-0.369	-0.783	-0.189	-0.213	0.213	-0.309	0.418
19	-0.309	0.421	9.990	0.555	-0.430	-0.128	-0.081	-0.421	-0.309	0.081	-0.081	-0.421	0.136
20	0.369	0.247	9.990	0.486	-0.291	-0.090	-0.227	-0.247	0.369	-0.217	-0.007	0.246	0.306
21	0.209	-0.080	9.990	0.613	-0.231	-0.851	-0.103	-0.734	0.209	-0.709	-0.103	0.080	-0.097
22	0.318	-0.027	9.990	0.266	0.052	-0.545	-0.158	-0.430	0.577	-0.440	0.046	0.471	0.060
23	0.000	0.623	9.990	0.295	0.588	0.191	0.500	-0.128	-0.409	-0.098	0.500	-0.128	0.332
24	-0.633	0.783	9.990	0.835	0.577	0.000	-0.369	-0.783	-0.189	-0.500	0.500	-0.309	0.648
25	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
26	-0.459	0.885	9.990	0.667	0.312	-0.295	0.220	-0.555	-0.459	-0.220	0.220	-0.555	0.400
27	0.468	-0.191	9.990	0.123	0.379	0.025	0.124	0.191	-0.101	-0.124	0.124	0.588	0.443
28	-0.021	-0.194	9.990	0.528	0.682	0.287	0.356	-0.305	-0.021	0.113	0.582	0.194	-0.046
29	-0.309	0.878	9.990	0.555	0.027	-0.128	-0.081	-0.421	-0.309	0.387	-0.081	-0.421	0.136
30	0.209	0.734	9.990	0.613	-0.231	0.151	0.165	-0.424	-0.158	0.437	0.165	0.080	0.172
31	-0.021	0.305	9.990	0.528	-0.421	-0.158	0.121	-0.305	0.319	-0.356	-0.337	-0.662	-0.288
32	-0.266	-0.027	9.990	0.266	0.052	-0.158	0.046	-0.430	0.577	-0.248	-0.158	-0.430	0.060
33	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
34	0.459	-0.555	9.990	-0.667	0.266	0.295	0.356	0.555	0.459	-0.356	0.356	0.555	0.172
35	-0.459	0.555	9.990	1.000	0.312	-0.295	-0.356	-0.885	-0.459	-0.220	0.220	-0.555	0.400
36	-0.309	0.421	9.990	0.885	0.471	-0.623	-0.081	-0.878	-0.309	-0.387	0.387	-0.421	0.136
37	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
38	-0.041	-0.247	9.990	0.071	0.071	0.447	0.227	-0.246	-0.041	0.217	0.435	-0.246	0.140
39	-0.835	0.555	9.990	0.667	0.312	-0.295	-0.356	-0.555	-0.459	-0.220	0.220	-0.555	0.400
40	-0.369	0.081	9.990	0.356	-0.158	0.098	0.067	-0.511	0.213	-0.067	-0.338	-0.081	0.027
41	-0.783	0.421	9.990	0.555	0.027	-0.128	-0.081	-0.421	-0.783	0.081	0.387	-0.878	-0.342
42	-0.762	0.052	9.990	0.224	0.031	-0.019	-0.409	-0.553	0.077	1.094	-0.094	-0.553	0.158
43	-0.317	0.052	9.990	0.224	0.031	-0.019	-0.409	-0.553	0.077	0.094	-0.409	-0.052	0.158
44	-0.317	0.052	9.990	0.224	0.031	-0.019	-0.409	-0.553	0.077	0.094	-0.409	-0.052	0.158
45	-0.317	0.052	9.990	0.224	0.031	-0.019	-0.409	-0.553	0.077	0.094	-0.409	-0.052	0.158
46	-0.317	0.052	9.990	0.224	0.031	-0.019	-0.409	-0.553	0.077	0.094	-0.409	-0.052	0.158
47	-0.409	0.128	9.990	0.295	0.217	-0.124	-0.274	-0.623	0.000	0.274	-0.274	-0.128	0.332
48	-0.146	0.017	9.990	-0.158	0.403	-0.071	-0.047	-0.017	0.712	-0.512	-0.047	0.487	-0.019
49	0.234	-0.487	9.990	-0.158	-0.177	-0.071	-0.654	-0.017	-0.146	-0.241	-0.047	0.487	-0.019
50	-0.213	-0.081	9.990	0.220	0.158	0.274	-0.271	0.081	-0.213	0.067	-0.067	0.081	-0.027
51	0.087	0.139	9.990	-0.037	0.087	-0.223	-0.266	0.363	0.613	-0.459	0.228	0.698	0.198
52	-0.021	0.662	9.990	-0.018	0.484	-0.158	0.121	0.194	-0.021	0.113	0.356	0.194	0.469
53	-0.158	-0.080	9.990	0.096	0.295	-0.305	-0.596	0.080	-0.158	0.103	-0.103	0.080	0.172
54	-0.577	-0.430	9.990	0.312	0.150	-0.217	-0.440	-0.027	-0.318	0.046	-0.046	-0.027	0.147
55	-0.409	0.128	9.990	0.295	0.713	-0.124	0.098	-0.128	-0.409	-0.098	0.649	-0.128	-0.037
56	0.077	0.052	9.990	0.224	0.031	0.266	-0.094	-0.052	-0.317	0.705	-0.094	-0.052	0.158
57	0.468	-0.191	9.990	0.123	0.572	0.025	-0.091	-0.295	-0.415	0.305	0.124	0.588	0.443
58	0.415	-0.295	9.990	-0.123	0.452	0.401	0.697	-0.191	0.101	0.332	-0.332	-0.191	-0.227

	66	67	68	69	70	71	72	73	74	75	76	77	78
59	0.146	-0.017	9.990	0.158	0.459	-0.385	0.346	0.017	0.146	0.512	0.654	-0.487	-0.287
60	-0.158	-0.550	9.990	0.172	0.266	-0.037	0.027	0.136	0.418	-0.027	0.430	0.136	-0.322
61	-0.234	-0.017	9.990	0.158	0.177	0.071	0.346	0.017	-0.712	0.512	0.047	-0.487	0.019
62	-0.266	0.139	9.990	-0.037	-0.396	-0.223	-0.266	-0.139	0.087	-0.667	-0.266	-0.139	-0.299
63	-0.041	0.246	9.990	0.071	0.071	-0.346	0.007	-0.246	-0.041	-0.227	-0.217	0.625	0.140
64	0.418	-0.550	9.990	0.172	0.060	-0.452	0.234	-0.342	-0.158	-0.430	-0.387	0.136	-0.678
65	0.369	-0.511	9.990	-0.356	0.158	-0.500	0.139	0.511	0.369	0.465	-0.271	0.081	-0.027
66	1.000	-0.309	9.990	-0.459	0.266	0.000	0.613	0.309	0.189	0.500	-0.213	0.783	0.158
67	-0.309	1.000	9.990	0.555	0.027	-0.128	-0.081	-0.421	-0.309	0.081	-0.081	-0.421	0.550
68	9.990	9.990	1.000	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
69	-0.459	0.555	9.990	1.000	0.312	-0.295	-0.356	-0.885	-0.459	-0.220	0.220	-0.555	0.400
70	0.266	0.027	9.990	0.312	1.000	-0.217	0.540	-0.471	-0.318	0.248	0.356	0.430	-0.060
71	0.000	-0.128	9.990	-0.295	-0.217	1.000	-0.500	0.623	0.000	0.500	0.274	0.128	0.613
72	0.613	-0.081	9.990	-0.356	0.540	-0.500	1.000	0.081	0.369	0.271	-0.067	0.081	-0.607
73	0.309	-0.421	9.990	-0.885	-0.471	0.623	0.081	1.000	0.309	0.387	0.081	0.421	-0.136
74	0.189	-0.309	9.990	-0.459	-0.318	0.000	0.369	0.309	1.000	-0.613	-0.213	0.309	-0.418
75	0.500	0.081	9.990	-0.220	0.248	0.500	0.271	0.387	-0.613	1.000	-0.139	-0.081	0.027
76	-0.213	-0.081	9.990	0.220	0.356	0.274	-0.067	0.081	-0.213	-0.139	1.000	-0.387	0.183
77	0.783	-0.421	9.990	-0.555	0.430	0.128	0.081	0.421	0.309	-0.081	-0.387	1.000	0.342
78	0.158	0.550	9.990	0.400	-0.060	0.613	-0.607	-0.136	-0.418	0.027	0.183	0.342	1.000
79	0.041	0.625	9.990	-0.071	0.149	0.535	-0.007	0.246	-0.516	0.007	0.217	-0.247	0.087
80	0.213	0.081	9.990	0.356	0.248	-0.274	0.271	-0.511	0.213	0.139	0.271	-0.081	-0.183
81	-0.077	-0.553	9.990	-0.699	-0.031	0.019	0.409	0.553	-0.077	-0.094	0.094	0.052	-0.464
82	0.815	-0.128	9.990	-0.743	-0.588	-0.191	0.629	0.623	0.409	0.500	-0.500	0.128	-0.332
83	0.213	0.081	9.990	0.356	0.878	-0.274	0.271	-0.511	-0.369	0.139	0.067	0.387	0.430
84	-0.613	0.363	9.990	0.037	0.158	-0.229	0.266	-0.363	0.266	0.228	-0.228	-0.363	0.057
85	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
86	-0.512	0.213	9.990	0.373	0.029	-0.251	0.384	-0.213	-0.087	-0.384	-0.087	-0.213	-0.332
87	0.459	-0.342	9.990	0.400	0.348	0.037	-0.027	-0.550	0.158	0.234	0.183	0.342	-0.309
88	-0.512	0.213	9.990	0.373	0.029	0.104	0.384	-0.213	-0.512	0.087	0.384	-0.699	0.146
89	-0.234	-0.017	9.990	0.158	-0.113	0.332	0.047	0.017	0.146	0.512	0.047	-0.487	-0.287
90	0.418	-0.136	9.990	0.172	0.462	-0.037	0.234	-0.342	-0.138	0.577	0.234	0.136	-0.116
91	-0.369	0.511	9.990	0.356	0.440	0.098	-0.339	-0.511	0.213	-0.067	-0.139	0.387	0.027
92	0.146	0.487	9.990	0.158	0.459	-0.689	0.047	-0.487	-0.234	0.241	0.047	0.017	0.305
93	0.087	-0.363	9.990	-0.037	-0.396	-0.223	-0.016	-0.139	0.087	-0.228	-0.016	-0.139	-0.521
94	0.021	0.194	9.990	0.018	0.421	-0.287	0.113	-0.194	-0.319	-0.337	0.728	-0.194	0.528
95	-0.213	-0.081	9.990	0.220	-0.046	0.274	-0.465	-0.387	-0.213	0.271	-0.271	0.081	-0.027
96	-0.101	0.295	9.990	0.123	-0.041	0.025	-0.305	-0.295	-0.415	0.305	-0.305	0.191	0.443
97	0.266	0.027	9.990	-0.266	-0.253	-0.217	0.356	-0.027	0.539	0.046	-0.248	-0.027	-0.060
98	0.369	0.625	9.990	-0.071	0.149	0.346	0.436	-0.247	0.041	0.007	0.217	0.246	-0.369
99	0.209	-0.080	9.990	0.096	0.295	-0.305	0.437	-0.424	-0.158	0.596	0.165	-0.424	-0.379
100	0.565	0.194	9.990	0.018	0.421	-0.287	-0.356	-0.194	0.021	0.356	-0.121	0.305	0.528
101	0.778	-0.363	9.990	-0.037	0.332	-0.223	-0.016	-0.139	-0.266	0.756	-0.016	0.363	-0.057
102	0.158	-0.342	9.990	0.400	-0.266	-0.332	-0.027	-0.550	0.158	-0.387	-0.027	-0.136	-0.097
103	0.512	-0.699	9.990	-0.373	0.620	-0.104	0.687	0.213	0.087	0.384	0.526	0.213	-0.146
104	-0.500	-0.511	9.990	0.220	0.356	-0.500	-0.067	-0.387	-0.213	-0.139	0.139	0.081	-0.234
105	0.158	0.080	9.990	-0.613	0.231	-0.390	0.103	0.424	0.158	-0.103	-0.709	0.734	-0.172
106	-0.835	0.555	9.990	0.667	0.312	-0.295	-0.356	-0.555	-0.459	-0.220	0.220	-0.555	0.400
107	-0.835	0.555	9.990	0.667	0.312	-0.295	-0.356	-0.555	-0.459	-0.220	0.220	-0.555	0.400
108	-0.835	0.555	9.990	0.667	0.312	-0.295	-0.356	-0.555	-0.459	-0.220	0.220	-0.555	0.400
109	-0.835	0.555	9.990	0.667	0.312	-0.295	-0.356	-0.555	-0.459	-0.220	0.220	-0.555	0.400
110	-0.835	0.555	9.990	0.667	0.312	-0.295	-0.356	-0.555	-0.459	-0.220	0.220	-0.555	0.400
111	-0.783	0.421	9.990	0.555	0.471	-0.623	-0.081	-0.421	-0.309	-0.387	0.387	-0.421	0.136
112	-0.835	0.555	9.990	0.667	0.312	-0.295	-0.356	-0.555	-0.459	-0.220	0.220	-0.555	0.400
113	-0.783	0.421	9.990	0.555	0.471	-0.623	-0.081	-0.421	-0.309	-0.387	0.387	-0.421	0.136
114	-0.783	0.421	9.990	0.555	0.471	-0.128	-0.081	-0.421	-0.783	0.081	0.387	-0.421	0.136
115	-0.783	0.421	9.990	0.555	0.027	-0.128	-0.511	-0.421	-0.309	0.081	0.387	-0.421	0.550
116	-0.512	0.213	9.990	0.373	0.029	0.104	-0.087	-0.213	-0.087	-0.384	0.583	-0.213	0.146

	66	67	68	69	70	71	72	73	74	75	76	77	78
117	-0.633	0.309	9.990	0.459	0.318	0.000	0.213	•0.309	-0.189	-0.500	0.500	•0.309	-0.158
118	-0.234	0.487	9.990	0.158	0.177	-0.385	0.346	0.017	0.146	0.241	-0.241	0.017	-0.287
119	-0.783	0.421	9.990	0.555	0.027	-0.623	-0.081	•0.421	-0.309	-0.387	-0.081	•0.421	0.136
120	•0.234	0.487	9.990	0.158	0.177	-0.385	0.346	0.017	0.146	0.241	-0.241	0.017	•0.287
121	•0.835	0.555	9.990	0.667	0.312	-0.295	-0.356	•0.555	-0.459	-0.220	0.220	-0.555	0.400
122	-0.783	0.421	9.990	0.555	0.471	-0.128	-0.081	-0.421	-0.309	0.081	0.387	•0.421	0.136
123	•0.783	0.421	9.990	0.555	0.471	-0.128	-0.081	•0.421	•0.309	0.081	0.387	•0.421	0.136
124	-0.783	0.421	9.990	0.555	0.471	-0.128	-0.081	•0.421	•0.309	0.081	0.387	•0.421	0.136
125	-0.633	0.309	9.990	0.459	0.577	-0.815	0.213	•0.783	•0.189	•0.213	0.213	•0.309	-0.158
126	•0.783	0.421	9.990	0.555	0.471	-0.128	-0.081	•0.421	•0.309	0.081	0.387	•0.421	0.136
127	-0.835	0.555	9.990	0.667	0.312	-0.295	-0.356	•0.555	•0.459	-0.220	0.220	•0.555	0.400
128	-0.835	0.555	9.990	0.667	0.312	-0.295	-0.356	•0.555	-0.459	-0.220	0.220	•0.555	0.400
129	-0.783	0.421	9.990	0.555	0.027	-0.128	-0.511	•0.421	-0.309	0.081	•0.081	•0.421	0.136
130	-0.633	0.309	9.990	0.835	0.577	0.000	•0.613	•0.783	-0.189	-0.500	0.500	•0.309	0.648
131	•0.783	0.421	9.990	0.555	0.471	-0.623	-0.081	•0.421	•0.309	0.081	0.387	•0.421	0.136
132	-0.835	0.555	9.990	0.667	0.312	-0.295	-0.356	•0.555	•0.459	-0.220	0.220	•0.555	0.400
133	-0.835	0.555	9.990	0.667	0.312	-0.295	-0.356	•0.555	•0.459	-0.220	0.220	•0.555	0.400
134	-0.633	0.309	9.990	0.459	0.318	-0.409	0.213	•0.309	•0.189	-0.213	0.500	•0.309	-0.158
135	-0.835	0.555	9.990	0.667	0.312	-0.295	-0.356	•0.555	•0.459	-0.220	0.220	•0.555	0.400
136	•0.835	0.555	9.990	0.667	0.312	-0.295	-0.356	•0.555	•0.459	-0.220	0.220	•0.555	0.400
137	•0.512	0.213	9.990	0.373	0.480	0.104	0.384	-0.213	-0.087	0.526	-0.087	-0.213	0.570
138	0.077	0.553	9.990	0.224	0.353	-0.473	0.237	•0.052	•0.762	•0.237	-0.094	•0.052	•0.176
139	-0.309	0.421	9.990	0.555	-0.430	-0.128	-0.081	•0.421	•0.309	0.081	-0.081	•0.878	•0.342
140	0.319	0.305	9.990	0.528	0.037	-0.505	-0.113	•0.662	•0.021	-0.121	0.121	0.194	-0.046
141	•0.309	0.878	9.990	0.555	0.027	-0.623	-0.081	•0.421	•0.309	•0.387	-0.081	•0.421	0.136
142	-0.021	•0.194	9.990	0.528	0.484	-0.505	0.121	•0.305	-0.021	0.113	-0.113	0.194	-0.528
143	•0.087	0.363	9.990	0.037	0.618	-0.565	0.266	0.139	-0.087	-0.266	0.515	0.139	-0.198
144	0.077	0.052	9.990	0.224	0.353	-0.473	0.237	•0.052	0.077	-0.237	0.237	•0.052	-0.542
145	-0.189	0.309	9.990	0.459	0.318	-0.409	0.213	•0.309	•0.633	0.369	0.213	-0.309	-0.459
146	•0.309	0.878	9.990	0.555	0.027	-0.128	-0.081	•0.421	•0.309	0.511	•0.511	•0.421	0.550
147	-0.409	0.128	9.990	0.295	-0.158	-0.571	-0.274	•0.623	0.000	-0.098	-0.274	•0.123	-0.452
148	-0.317	0.553	9.990	0.224	0.031	0.266	-0.094	•0.052	0.077	0.094	0.237	•0.553	0.158
149	-0.317	0.052	9.990	0.224	-0.295	0.266	0.237	•0.052	0.077	0.094	-0.094	•0.052	-0.176
150	•0.512	0.213	9.990	0.373	0.029	0.104	0.384	•0.213	-0.087	0.087	-0.087	•0.699	-0.332
151	-0.409	0.128	9.990	0.295	0.217	0.191	-0.274	•0.128	•0.409	0.274	0.500	-0.128	0.669
152	-0.512	0.213	9.990	0.373	-0.433	0.104	-0.526	-0.213	•0.512	0.087	-0.087	•0.699	-0.332
153	0.209	•0.060	9.990	0.613	0.034	0.151	0.165	-0.424	0.209	-0.437	0.165	•0.424	-0.097
154	0.146	0.487	9.990	0.158	-0.113	-0.385	0.047	0.017	0.146	0.241	-0.241	0.017	0.019
155	0.146	•0.017	9.990	0.158	-0.113	-0.689	0.047	0.017	0.146	-0.047	•0.241	0.017	•0.613
156	0.000	0.623	9.990	0.295	-0.158	-0.124	0.098	•0.128	0.000	-0.098	0.098	-0.128	0.332
157	-0.317	0.052	9.990	0.224	-0.295	-0.019	-0.409	•0.052	0.077	0.094	0.237	•0.553	•0.176
158	0.000	0.128	9.990	0.295	-0.158	-0.124	0.098	•0.128	0.000	0.629	-0.274	•0.623	•0.613
159	-0.409	0.128	9.990	0.295	-0.545	0.191	0.098	•0.128	•0.409	0.629	0.500	•0.841	-0.037
160	-0.189	0.783	9.990	0.459	-0.539	-0.409	-0.369	•0.309	•0.189	•0.213	-0.369	•0.309	0.418
161	-0.087	0.213	9.990	0.373	0.480	-0.251	0.384	•0.213	•0.512	0.526	-0.087	•0.213	0.146
162	-0.087	0.699	9.990	0.788	0.029	-0.251	-0.087	•0.699	•0.087	-0.583	0.384	•0.213	0.570
163	-0.715	0.247	9.990	-0.071	-0.071	-0.447	-0.227	•0.247	0.369	•0.830	0.217	•0.247	0.306
164	-0.087	0.213	9.990	0.373	0.029	-0.682	0.583	•0.213	•0.512	0.087	•0.087	•0.213	•0.332
165	-0.087	0.699	9.990	0.373	0.029	0.104	0.384	•0.213	-0.087	0.087	0.384	•0.699	0.570
166	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
167	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990

	79	80	81	82	83	84	85	86	87	88	89	90	91
1	-0,335	0,228	0,325	-0,229	-0,515	0,113	9,990	0,392	0,299	-0,092	0,309	0,198	0,459
2	-0,651	-0,227	-0,046	0,090	-0,435	0,335	9,990	0,220	-0,087	0,220	-0,158	0,087	0,217
3	0,158	0,241	0,178	0,332	-0,346	-0,409	9,990	-0,248	0,565	-0,248	0,163	-0,305	0,241
4	-0,435	0,067	0,409	-0,098	-0,139	0,016	9,990	0,384	0,387	-0,087	-0,241	0,027	0,465
5	-0,435	0,067	-0,237	-0,098	0,067	0,016	9,990	0,384	-0,027	0,384	-0,512	-0,183	0,067
6	-0,256	0,217	-0,443	0,090	-0,007	0,335	9,990	0,220	0,140	-0,266	-0,158	-0,140	0,436
7	-0,071	0,356	-0,224	-0,295	0,356	0,037	9,990	0,373	0,400	0,373	0,656	0,172	0,356
8	0,247	0,081	-0,052	-0,128	0,081	0,363	9,990	0,213	0,136	0,213	0,770	-0,136	0,081
9	-0,521	-0,047	0,178	0,332	-0,047	0,309	9,990	-0,248	0,019	-0,248	-0,266	0,613	-0,047
10	-0,253	0,103	0,256	0,390	0,103	0,206	9,990	-0,309	0,172	-0,309	-0,342	0,379	-0,165
11	-0,246	0,081	-0,052	-0,128	0,081	0,698	9,990	0,213	0,136	0,213	-0,017	0,342	0,081
12	0,209	0,228	-0,426	0,443	0,228	0,376	9,990	-0,364	0,299	-0,364	0,309	-0,057	0,228
13	0,158	0,241	-0,578	0,332	-0,047	0,568	9,990	-0,248	0,305	-0,248	0,480	-0,019	0,512
14	-0,535	-0,091	-0,223	0,401	0,124	0,131	9,990	0,206	-0,443	0,206	-0,224	0,007	-0,305
15	0,434	0,241	-0,578	0,071	-0,047	-0,409	9,990	-0,248	0,305	-0,248	0,163	-0,305	0,512
16	0,288	0,094	-0,363	0,266	0,409	-0,325	9,990	-0,181	0,464	-0,181	0,578	-0,464	0,094
17	-0,639	-0,266	-0,426	0,223	0,228	-0,191	9,990	0,392	-0,720	0,392	-0,011	-0,299	-0,016
18	-0,041	0,613	-0,317	-0,409	0,613	-0,266	9,990	0,087	0,648	0,087	0,234	0,158	0,369
19	-0,246	-0,387	-0,052	-0,128	-0,387	0,363	9,990	0,213	0,136	0,213	-0,017	0,342	-0,387
20	-0,223	0,007	-0,807	-0,090	0,007	-0,052	9,990	-0,220	-0,140	-0,461	0,434	-0,087	0,227
21	-0,585	0,103	-0,179	0,151	0,103	-0,106	9,990	-0,019	0,172	-0,309	-0,517	0,097	-0,165
22	-0,363	0,158	-0,628	-0,158	0,158	0,087	9,990	-0,029	0,060	-0,029	-0,177	0,348	0,158
23	0,826	0,274	0,266	-0,124	0,629	-0,223	9,990	-0,104	-0,037	0,251	-0,332	-0,332	-0,500
24	-0,041	-0,213	-0,317	-0,815	0,613	0,087	9,990	0,087	-0,158	0,512	-0,146	0,158	0,613
25	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990
26	0,486	-0,220	-0,224	-0,295	0,356	0,037	9,990	0,373	-0,172	0,373	0,158	-0,400	0,356
27	-0,170	-0,124	0,223	0,389	0,091	-0,370	9,990	0,278	0,007	-0,206	-0,087	-0,227	0,091
28	0,113	0,113	-0,024	-0,505	0,113	0,290	9,990	0,328	0,189	0,328	-0,087	0,528	0,113
29	0,625	-0,387	-0,052	-0,128	0,081	-0,139	9,990	0,213	0,136	0,213	-0,017	-0,550	0,511
30	0,315	0,359	-0,179	0,151	-0,437	-0,106	9,990	-0,309	-0,097	-0,309	-0,517	0,097	-0,165
31	-0,141	0,113	-0,024	0,287	-0,356	0,027	9,990	0,328	-0,288	0,328	-0,087	0,046	0,113
32	-0,149	0,158	0,353	0,217	-0,046	0,087	9,990	-0,029	-0,147	0,433	-0,177	0,147	0,158
33	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990
34	0,071	0,220	0,224	0,295	0,220	-0,037	9,990	-0,373	-0,400	-0,373	-0,656	-0,172	-0,356
35	-0,071	0,356	-0,699	-0,743	0,356	0,037	9,990	0,373	0,400	0,373	0,158	0,172	0,356
36	-0,246	0,511	-0,553	-0,623	0,511	-0,139	9,990	0,699	0,136	0,213	-0,017	0,342	0,511
37	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990
38	0,223	0,436	-0,046	0,090	-0,227	0,335	9,990	0,220	0,140	0,461	0,521	0,306	0,217
39	-0,071	-0,220	-0,224	-0,743	0,356	0,571	9,990	0,373	-0,172	0,788	0,158	0,172	0,356
40	0,007	-0,067	-0,094	0,098	-0,067	0,848	9,990	-0,384	-0,183	-0,384	-0,047	0,387	-0,067
41	0,625	-0,387	-0,052	-0,623	0,081	0,363	9,990	0,213	-0,342	0,699	0,487	-0,136	-0,387
42	-0,046	-0,237	0,339	-0,019	0,094	0,682	9,990	-0,181	0,158	0,149	0,266	0,542	0,094
43	-0,046	-0,237	0,339	-0,019	0,094	0,426	9,990	-0,181	0,464	0,149	-0,178	0,542	0,409
44	-0,046	-0,237	0,339	-0,019	0,094	0,426	9,990	-0,181	0,464	0,149	-0,178	0,542	0,409
45	-0,046	-0,237	0,339	-0,019	0,094	0,426	9,990	-0,181	0,464	0,149	-0,178	0,542	0,409
46	-0,046	-0,237	0,339	-0,019	0,094	0,426	9,990	-0,181	0,464	0,149	-0,178	0,542	0,409
47	-0,346	-0,098	0,266	-0,124	0,274	0,565	9,990	-0,104	0,332	0,251	-0,071	0,613	0,274
48	-0,158	0,346	0,266	-0,071	0,047	0,409	9,990	0,248	-0,019	-0,528	0,266	0,019	0,654
49	-0,158	-0,512	-0,178	-0,071	-0,241	-0,309	9,990	-0,060	0,287	-0,060	0,266	0,305	0,346
50	0,217	-0,338	0,094	-0,500	0,067	0,266	9,990	-0,087	0,183	-0,087	0,047	0,607	0,271
51	-0,443	0,016	-0,325	-0,223	-0,228	-0,376	9,990	0,364	-0,057	-0,392	-0,309	-0,198	0,266
52	0,553	0,337	0,387	0,287	0,545	0,518	9,990	0,328	0,189	-0,158	-0,468	0,288	0,337
53	-0,253	-0,437	-0,179	-0,305	0,359	-0,106	9,990	-0,309	0,422	-0,019	-0,342	0,097	0,103
54	-0,071	-0,540	-0,353	-0,713	0,248	0,396	9,990	0,029	-0,060	0,029	-0,113	-0,147	-0,158
55	0,090	-0,098	-0,019	-0,826	0,629	0,229	9,990	-0,104	-0,037	0,682	-0,332	0,452	-0,500
56	-0,046	-0,586	0,087	0,266	-0,237	0,098	9,990	0,149	0,740	-0,181	0,578	-0,158	0,094
57	0,060	0,091	-0,495	-0,401	0,697	0,682	9,990	-0,206	0,007	-0,206	-0,087	0,412	0,305
58	-0,060	0,124	0,113	0,401	0,332	0,370	9,990	-0,278	0,209	-0,278	0,087	0,443	-0,305

	79	80	81	82	83	84	85	86	87	88	89	90	91
59	-0.521	0.241	-0.266	0.071	0.241	-0.409	9.990	0,060	0,019	0.060	-0,266	0,613	-0,346
60	-0.682	-0.027	0.158	-0.613	-0.027	-0.521	9.990	0,545	0,097	0,545	-0,019	0,512	-0,027
61	0.158	-0,047	0.178	0.071	0.512	0.309	9.990	0,060	-0,715	0,060	0,163	0,287	-0,654
62	0.052	-0,228	0.426	-0.223	-0.459	-0.376	9,990	0,092	-0,057	0,364	-0,309	-0.198	0.515
63	0.223	-0,007	-0.443	-0.346	-0.007	-0.209	9.990	-0,266	0,369	0,220	-0,158	-0,590	0,436
64	-0.087	-0,430	0.464	0.332	-0.234	-0.299	9,990	0,332	0,309	-0,146	0.287	-0,097	0,183
65	-0.435	-0,139	-0.237	0.274	0.465	0.016	9,990	-0,526	-0,027	-0,087	0,047	0,234	-0,339
66	0.041	0,213	-0,077	0.815	0.213	-0.613	9,990	-0,512	0,459	-0,512	-0,234	0,418	-0.369
67	0.625	0,081	-0.553	-0.128	0.081	0.363	9,990	0,213	-0,342	0,213	-0,017	-0,136	0,511
68	9.990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990
69	-0.071	0.356	-0.699	-0.743	0.356	0.037	9,990	0,373	0,400	0,373	0,158	0,172	0,356
70	0.149	0.248	-0.031	-0.588	0.878	0.158	9,990	0,029	0,348	0,029	-0,113	0,462	0,440
71	0.535	-0.274	0.019	-0.191	-0.274	-0.229	9,990	-0,251	0,037	0,104	0,332	-0.037	0,098
72	-0.007	0,271	0,409	0,629	0,271	0,266	9,990	0,384	-0,027	0,384	0,047	0,234	-0,338
73	0.246	-0.511	0.553	0.623	-0.511	-0.363	9,990	-0,213	-0,550	-0,213	0,017	-0,342	-0,511
74	-0.516	0,213	-0,077	0,409	-0,369	0,266	9,990	-0,087	0,158	-0,512	0,146	-0,158	0,213
75	0.007	0.139	-0.094	0.500	0.139	0.228	9,990	-0,384	0,234	0,087	0,512	0,577	-0,067
76	0.217	0,271	0,094	-0.500	0.067	-0.228	9,990	-0.087	0,183	0,384	0,047	0,234	-0,139
77	-0.247	-0.081	0.052	0.128	0.387	-0.363	9,990	-0,213	0,342	-0,699	-0,487	0,136	0,387
78	0.087	-0.183	-0.464	-0.332	0.430	0.057	9,990	-0.332	-0,309	0,146	-0,287	-0,116	0,027
79	1.000	0,227	0,046	0,346	0,007	-0,052	9,990	-0,461	0,306	-0,220	-0,158	-0,506	0,007
80	0.227	1.000	-0.094	0.098	0.139	-0.016	9,990	0,087	0,430	-0,384	-0,346	0,337	0,139
81	0.046	-0.094	1.000	0.473	-0.094	-0.098	9,990	0,181	0.176	0,181	-0,256	0,158	-0,094
82	0.346	0,098	0.473	1.000	-0.629	0.223	9,990	-0,251	0,452	-0,682	0,332	-0,452	-0,274
83	0.007	0.139	-0.094	-0.629	1.000	0.228	9,990	-0,384	0,027	0,087	-0,346	0,387	0,139
84	-0.052	-0,016	-0.098	0.223	0.228	1.000	9,990	-0.092	-0.198	-0,092	0,309	0,459	-0,016
85	9.990	9,990	9.990	9.990	9.990	9.990	1.000	9,990	9,990	9,990	9,990	9.990	9,990
86	-0.461	0,087	0,181	-0.251	-0.384	-0.092	9,990	1.000	-0,332	0,369	0,060	-0,146	0,526
87	0.306	0.430	0.176	0.452	0.027	-0.198	9,990	-0.332	1,000	-0,545	0,305	0.097	0,430
88	-0.220	-0.384	0.181	-0.682	0.087	-0.092	9,990	0,369	-0,545	1,000	-0,248	0,332	-0,384
89	-0.158	-0.346	-0.266	0.332	-0.346	0.309	9,990	0.060	0,305	-0,248	1,000	-0.305	0,512
90	-0.506	0.387	0.158	-0.452	0.387	0.459	9,990	-0,146	0,097	0,332	-0,305	1,000	-0,027
91	0.007	0.139	-0.094	-0.274	0.139	-0.016	9,990	0,526	0,430	-0,384	0,512	-0,027	1,000
92	-0.158	0,762	-0.266	0.071	0.512	0.568	9,990	0,060	-0,287	-0,248	-0,464	0,715	-0,047
93	0.052	0.266	-0.325	0.229	-0.228	-0.113	9,990	-0,738	-0,057	0.092	0,409	0,057	0.016
94	0.409	0,356	0.356	-0.287	0.356	0.266	9,990	0,158	-0,189	0,415	-0,500	0,189	-0,113
95	-0.007	0,271	0,094	0.274	-0.139	-0.228	9,990	0,583	0,577	-0,526	0,346	0.027	0,641
96	-0.385	-0.692	-0.113	0,025	0,091	0,127	9,990	-0.206	-0,209	0,278	0,569	-0.007	0,305
97	-0.071	0,440	0,295	0,545	-0.158	0,396	9,990	-0,433	0,147	0,480	0.177	0,266	0,046
98	0.651	0,007	0.046	0.346	-0.436	0.209	9,990	-0.220	0.506	-0,220	-0,158	0.140	0,227
99	-0.253	0,103	0.459	0.151	0.103	0.468	9,990	-0,019	0,172	0,459	0,391	0,671	0,103
100	-0.113	-0.113	-0.387	-0.287	0.844	-0.027	9,990	-0,697	0,046	0,158	-0.232	0,409	0,356
101	-0.209	0,016	-0.509	0.229	0.016	0.191	9,990	-0,392	0,198	-0.392	0,011	0,521	0,016
102	-0.140	0,430	0,176	0,037	0,234	0,057	9,990	0,146	0,322	-0,332	-0,287	-0,116	0,234
103	-0.655	-0,526	0,149	0,251	0,384	0,092	9,990	-0.369	-0,146	0,016	0,248	0,570	-0,526
104	0,217	0,465	-0.237	-0.098	0,067	0,515	9,990	0,384	0,387	-0,526	0,047	-0.183	0,271
105	-0.046	-0,359	0,179	-0.151	0,709	0,479	9,990	0,019	-0,172	-0,459	-0,071	0,172	0,437
106	-0.071	-0,220	-0.224	-0.743	0,356	0,571	9,990	0,373	-0,172	0,788	0,158	0,172	0,356
107	-0.071	-0,220	-0.224	-0.743	0,356	0,571	9,990	0,373	-0,172	0,788	0,158	0,172	0,356
108	-0.071	-0,220	-0.224	-0.743	0,356	0,571	9,990	0,373	-0,172	0,788	0,158	0,172	0,356
109	-0.071	-0,220	-0.224	-0.743	0,356	0,571	9,990	0,373	-0,172	0,788	0,158	0,172	0,356
110	-0.071	-0,220	-0.224	-0.743	0,356	0,571	9,990	0,373	-0,172	0,788	0,158	0,172	0,356
111	-0.246	0,081	-0.052	-0.623	0,511	0,363	9,990	0,699	-0.342	0,699	-0.017	0,342	0,511
112	-0.071	-0,220	-0.224	-0.743	0,356	0,571	9,990	0,373	-0.172	0,788	0,158	0,172	0,356
113	-0.246	0,081	-0.052	-0.623	0,511	0,363	9,990	0,699	-0.342	0,699	-0,017	0,342	0,511
114	0.247	-0.387	-0.052	-0.841	0,511	0,363	9,990	0,213	-0,342	0,878	-0,017	0,342	0,081
115	-0.246	-0,387	-0.052	-0.623	0,081	0,363	9,990	0.213	0,136	0,699	-0,017	0,342	0,081
116	0.266	0,087	0,181	-0,251	-0,384	-0,092	9,990	-0,016	0,570	0,369	-0,248	0,332	-0,384

	79	80	81	82	83	84	85	86	87	88	89	90	91
117	-0.516	0.369	0.077	-0.409	-0.213	0.087	9.990	0,087	0,418	0,512	-0,146	0,158	-0,213
118	-0.158	0,241	-0.266	0,071	-0.047	0.568	9,990	-0,248	0,019	0,060	0,163	0,287	0,241
119	-0.246	-0,387	-0,052	-0.623	0.081	0.363	9.990	0,213	-0,342	0,699	-0,017	-0,136	0,081
120	-0.158	0,241	-0.266	0.071	-0.047	0.568	9.990	-0,248	0,019	0,060	0,163	0,287	0,241
121	-0.071	-0.220	-0.224	-0.743	0.356	0.571	9.990	0,373	-0,172	0,788	0,158	0,172	0,356
122	-0.246	-0.387	-0.052	-0.623	0.081	0.698	9,990	0,699	0,136	0,699	0,487	0,342	0,511
123	-0.246	-0.387	-0.052	-0.623	0.081	0.698	9.990	0,699	0,136	0,699	0,487	0,342	0,511
124	0.247	0.081	-0.553	-0.623	0.081	0.363	9.990	0,213	0,136	0,699	0,487	-0,136	0,511
125	-0.369	0,369	0.077	-0.409	0.613	0.778	9.990	0,087	0,418	0,512	-0,146	0,459	0,369
126	0.247	0.081	-0.553	-0.623	0.081	0.363	9,990	0,213	0,136	0,699	0,487	-0,136	0,511
127	-0.071	-0.220	-0.224	-0.743	0.356	0.571	9.990	0,373	-0,172	0,788	0,158	0,172	0,356
128	-0.071	-0.220	-0.224	-0.743	0.356	0.571	9,990	0,373	-0,172	0,788	0,158	0,172	0,356
129	-0.246	-0.387	-0.052	-0.623	0.081	0.363	9,990	0,213	0,136	0,699	0,487	0,342	0,511
130	-0.369	-0.213	-0.762	-0.901	0.613	0.087	9.990	0,087	-0,158	0,512	-0,146	0,459	0,369
131	-0.246	0.081	-0.052	-0.623	0.511	0.698	9,990	0,213	0,136	0,699	-0,017	0,342	0,081
132	-0.071	-0.220	-0.224	-0.743	0.356	0.571	9.990	0,373	-0,172	0,788	0,158	0,172	0,356
133	-0.071	-0.220	-0.224	-0.743	0.356	0.571	9.990	0,373	-0,172	0,788	0,158	0,172	0,356
134	-0.041	0.369	0.077	-0.409	0.369	0.613	9.990	0,087	0,418	0,512	-0,146	0,459	-0,213
135	-0.071	-0.220	-0.224	-0.743	0.356	0.571	9,990	0,373	-0,172	0,788	0,158	0,172	0,356
136	-0.071	-0.220	-0.224	-0.743	0.356	0.571	9.990	0,373	-0,172	0,788	0,158	0,172	0,356
137	-0.220	-0,384	-0.149	-0.251	0.526	0.834	9,990	0,369	-0,332	0,369	0,528	0,332	0,087
138	0.572	-0.586	0.339	-0.019	0.409	-0.509	9.990	0,149	-0,176	0,149	-0,403	-0,464	0,409
139	0.247	0.081	-0.052	-0.128	-0.387	-0.139	9.990	0,213	0,136	0,699	-0,017	-0,136	0,081
140	-0.141	-0.356	0.387	-0.158	0.113	-0.266	9,990	-0,415	0,409	-0,158	-0,087	0,046	0,337
141	0.247	-0,387	-0.553	-0.128	0.081	-0.139	9.990	0,213	-0,342	0,213	-0,017	-0,550	0.081
142	0.113	0.545	-0.356	-0.505	0.337	-0.266	9.990	0,328	0,189	-0,158	-0,087	0,046	0,337
143	-0.052	-0.515	0.325	-0.565	0.459	0.113	9.990	0,392	-0,198	0,392	-0,409	0,198	0,228
144	-0.443	-0.237	-0.363	-0.019	0.094	-0.325	9.990	0,602	-0,176	-0,181	-0,178	0,542	-0,237
145	-0.041	-0.213	0.077	-0.409	0.369	-0.266	9.990	0,512	-0,158	0,512	0,234	0,459	0,369
146	0.625	0.511	-0.553	-0.128	0.081	0.698	9.990	0,213	-0,342	0,213	-0,017	0,342	0,081
147	-0.535	0.274	0.266	-0.124	-0.098	-0.223	9.990	0,682	0,332	-0,104	-0,071	0,452	0,629
148	0.288	-0.586	0.339	0.266	-0.237	0.426	9.990	0,149	-0,176	-0,181	0,796	-0,158	0,409
149	-0.046	0,409	0,087	-0.019	-0.237	-0.325	9.990	0,149	0,464	-0,181	0,266	-0,158	-0,237
150	0.266	-0,384	-0.149	0.104	0.087	0.392	9,990	-0,016	-0,332	-0,016	0,528	-0,570	-0,583
151	0.090	-0.500	0.266	-0.571	0.274	0.229	9.990	-0,104	-0,452	0,682	-0,071	0,452	-0,098
152	0.266	-0.384	0.181	0.104	-0.384	-0.092	9.990	-0,016	-0,332	-0,016	0,060	-0,146	-0,384
153	-0.253	0.359	-0.500	-0.305	-0.163	-0.613	9.990	-0,019	0,172	0,459	-0,342	0,097	-0,437
154	0.158	0.512	-0.266	0.332	0.512	0.309	9,990	0,060	0,305	-0,248	0,163	-0,019	0,241
155	-0.521	-0,047	0.178	0.332	-0.047	-0.409	9.990	0,528	0,305	-0,248	0,480	-0,019	0,241
156	0.090	-0.098	-0.019	0.191	0.629	-0.223	9.990	0,251	-0,037	-0,104	0,385	-0,332	0,274
157	-0.046	-0.237	0.087	0.266	-0.237	0.098	9.990	0,149	0,464	-0,181	0,578	-0,158	-0,237
158	-0.346	0.274	-0.473	0.191	-0.500	-0.443	9.990	-0,104	0,332	0,251	0,689	0,037	0,274
159	0.090	-0.500	-0.019	-0.124	-0.098	0.229	9.990	-0,104	-0,452	0,682	0,365	0,037	-0,649
160	-0.041	-0.213	-0.317	0.000	-0.500	0.087	9.990	0,087	-0,459	0,087	0,234	-0,418	0,369
161	0.266	0,087	-0.602	0.104	0.526	-0.092	9.990	0,369	0,146	-0,016	0,528	-0,570	0,526
162	-0.220	-0.384	-0.149	-0.251	0.087	-0.364	9.990	-0,016	-0,332	-0,016	0,060	-0,570	0,526
163	-0.223	-0.217	0.443	-0.447	0.227	-0.052	9.990	0,655	-0,369	0,266	-0,521	-0,306	0,007
164	-0.220	-0,384	-0.149	-0.251	0.526	-0.092	9,990	0,369	-0,545	0,369	0,060	-0,146	-0,384
165	-0.220	-0,384	-0.602	-0.251	0.526	-0.092	9.990	-0,016	-0,545	0,369	0,060	-0,146	-0,384
166	9.990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990
167	9.990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990

	92	93	94	95	96	97	98	99	100	101	102	103	104
1	-0.011	0.191	-0.027	0.266	0.127	0.396	0.209	0.206	-0.707	-0.376	-0.198	0.092	0.515
2	-0.158	0.209	-0.141	0.007	0.385	0.291	-0.256	0.253	-0.141	0.209	0.590	-0.220	0.227
3	0.163	0.565	-0.232	0.654	-0.087	0.459	0.158	0.071	-0.232	1.011	0.019	-0.528	0.047
4	-0.241	0.228	0.113	-0.067	-0.305	0.356	-0.227	0.437	0.113	-0.016	0.888	-0.384	0.338
5	-0.241	0.228	-0.356	-0.067	-0.305	0.158	-0.227	-0.359	-0.121	-0.016	0.747	0.087	0.523
6	-0.158	0.443	-0.141	0.007	-0.298	0.291	-0.023	-0.046	0.113	0.209	0.846	-0.461	0.435
7	0.158	-0.037	-0.528	0.220	0.123	0.312	-0.071	0.096	0.018	-0.571	-0.172	-0.373	-0.356
8	-0.017	0.139	-0.305	0.387	0.295	0.027	-0.246	-0.080	-0.305	-0.698	-0.342	-0.213	-0.081
9	0.163	0.409	-0.500	0.346	0.569	0.459	0.434	-0.342	0.087	0.011	-0.287	-0.060	-0.762
10	0.071	0.479	-0.389	0.437	0.318	0.545	0.315	-0.415	0.183	-0.206	-0.097	-0.459	-0.809
11	0.487	0.139	-0.305	-0.081	-0.191	0.471	0.625	0.424	-0.305	0.139	0.550	-0.213	-0.081
12	-0.011	0.656	-0.707	0.515	-0.131	0.396	0.443	-0.479	0.266	0.191	0.299	-0.738	-0.228
13	0.163	0.565	-0.718	0.346	-0.087	0.459	0.667	-0.342	0.087	0.409	0.305	-0.528	0.047
14	0.369	-0.131	0.217	-0.692	-0.295	0.252	-0.060	0.242	0.217	0.127	0.595	0.505	-0.124
15	-0.266	0.565	-0.232	0.654	-0.087	0.177	0.158	-0.342	0.468	0.409	0.305	-0.820	-0.241
16	-0.403	0.509	-0.840	0.586	-0.223	0.031	-0.046	-0.459	0.387	-0.098	0.158	-0.602	-0.094
17	0.309	-0.113	0.266	-0.459	0.127	-0.087	-0.335	0.206	0.592	0.191	0.299	0.364	-0.228
18	-0.146	0.266	-0.021	0.500	0.101	0.318	-0.369	-0.209	0.319	-0.613	0.418	-0.512	-0.369
19	-0.017	-0.363	-0.662	-0.081	-0.191	0.027	0.625	-0.080	-0.305	0.139	0.136	-0.213	-0.511
20	0.158	0.639	-0.113	-0.007	-0.170	0.363	-0.223	-0.253	0.141	0.335	0.306	-0.266	-0.435
21	0.071	0.479	-0.123	0.165	0.027	0.034	0.046	-0.415	0.183	0.106	0.422	0.019	-0.103
22	0.403	0.396	0.037	0.046	-0.172	0.615	-0.149	-0.034	0.266	0.158	0.266	0.029	-0.158
23	-0.071	-0.229	0.491	-0.629	-0.389	-0.158	0.447	0.305	0.287	-0.229	-0.452	-0.251	-0.274
24	-0.146	-0.087	0.319	-0.369	0.415	-0.266	-0.041	-0.209	0.319	-0.613	-0.158	-0.087	0.213
25	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
26	0.158	-0.571	0.018	-0.356	0.123	-0.266	0.486	0.096	0.018	-0.571	-0.172	-0.373	-0.356
27	-0.369	-0.127	0.031	0.124	0.295	-0.041	-0.170	-0.485	-0.217	-0.127	-0.412	0.613	-0.091
28	-0.087	-0.027	0.060	-0.113	-0.266	-0.194	0.553	0.123	-0.198	0.592	-0.288	0.415	0.356
29	-0.017	-0.363	-0.305	-0.081	-0.191	-0.430	0.625	-0.080	0.194	-0.363	0.136	-0.699	-0.081
30	0.071	0.479	0.535	-0.359	0.027	0.034	0.549	-0.568	-0.613	-0.206	-0.097	0.019	-0.103
31	-0.087	0.592	0.060	0.356	-0.031	0.266	-0.141	-0.535	-0.198	-0.290	0.189	-0.328	-0.337
32	0.113	0.396	0.266	0.248	0.252	0.253	-0.149	-0.034	0.266	-0.087	-0.147	0.029	-0.158
33	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
34	-0.158	0.037	0.528	-0.220	-0.123	-0.312	0.071	-0.613	-0.018	0.037	0.172	0.373	0.356
35	0.158	-0.037	0.018	0.220	0.123	-0.266	-0.071	0.096	0.018	-0.037	0.400	-0.373	0.220
36	0.487	0.139	0.194	0.387	-0.191	-0.430	-0.246	-0.080	0.194	0.139	0.550	-0.213	0.387
37	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
38	0.158	0.443	0.346	0.227	0.170	0.071	0.475	0.253	-0.141	0.209	-0.087	0.266	0.435
39	0.158	-0.037	0.018	-0.356	0.123	0.312	-0.071	0.096	0.018	-0.571	-0.172	-0.373	0.220
40	0.241	0.515	0.121	0.067	0.305	0.046	0.227	-0.165	-0.337	0.016	0.027	-0.087	0.465
41	-0.017	0.139	0.194	-0.081	0.295	-0.430	0.247	0.424	-0.305	-0.363	-0.342	-0.213	-0.081
42	0.266	-0.098	-0.024	0.237	0.495	0.353	-0.046	0.500	0.387	-0.098	-0.542	0.181	0.237
43	0.266	-0.098	-0.356	0.237	0.113	0.353	0.288	0.500	0.554	0.325	-0.176	-0.149	0.237
44	0.266	-0.098	-0.356	0.237	0.113	0.353	0.288	0.500	0.554	0.325	-0.176	-0.149	0.237
45	0.266	-0.098	-0.356	0.237	0.113	0.353	0.288	0.500	0.554	0.325	-0.176	-0.149	0.237
46	0.266	-0.098	-0.356	0.237	0.113	0.353	0.288	0.500	0.554	0.325	-0.176	-0.149	0.237
47	0.385	-0.229	-0.158	0.098	0.401	0.588	0.090	0.625	0.491	0.223	-0.452	0.104	0.098
48	0.464	-0.011	0.232	0.512	-0.224	0.403	-0.158	-0.071	-0.468	-0.409	-0.305	-0.248	-0.047
49	-0.163	0.568	-0.087	0.762	0.616	0.113	0.158	-0.391	-0.087	-0.011	-0.305	0.060	-0.346
50	0.047	-0.016	0.113	0.139	0.124	-0.046	0.217	-0.103	0.113	-0.016	-0.234	0.087	-0.067
51	0.011	-0.191	-0.266	0.228	-0.127	-0.158	0.052	-0.679	-0.266	-0.191	-0.299	-0.364	-0.266
52	0.500	-0.518	0.730	-0.113	-0.266	0.266	0.113	0.123	0.341	-0.290	0.189	-0.328	0.356
53	0.071	-0.468	-0.389	-0.103	0.027	-0.231	-0.253	-0.415	0.654	0.106	-0.097	0.019	0.165
54	-0.113	-0.618	-0.037	-0.248	0.172	-0.615	-0.291	0.034	0.194	0.087	-0.060	-0.029	0.540
55	0.385	-0.229	0.491	-0.743	-0.389	-0.158	0.090	0.305	0.287	0.223	-0.452	0.104	0.098
56	-0.403	-0.426	-0.356	0.237	0.495	-0.628	0.288	0.179	-0.024	0.509	-0.176	0.181	0.237
57	0.682	0.131	0.266	0.124	-0.146	-0.041	0.060	0.318	0.480	0.761	0.443	-0.278	0.332
58	0.087	-0.131	-0.031	-0.332	-0.295	0.041	0.170	0.242	-0.031	0.399	0.209	0.505	0.091

	92	93	94	95	96	97	98	99	100	101	102	103	104
59	0.480	-0.309	-0.232	0.047	-0.616	-0.113	-0.158	0.071	0.468	0.565	0.019	0.248	-0.241
60	-0.305	-0.198	-0.046	-0.183	-0.007	-0.147	-0.306	0.379	0.189	0.057	-0.116	0.570	-0.183
61	0.480	0.409	0.087	0.047	0.224	-0.692	-0.521	0.071	0.087	0.409	-0.287	0.248	0.346
62	-0.568	0.376	0.027	-0.016	0.370	0.087	0.335	-0.206	0.027	-0.539	0.198	-0.092	-0.266
63	-0.434	-0.052	-0.141	-0.217	0.385	0.071	0.475	-0.315	0.113	-0.335	0.140	-0.220	0.227
64	-0.565	0.521	-0.046	0.234	0.412	-0.147	0.140	0.097	-0.288	0.057	0.097	0.570	0.027
65	0.047	-0.016	-0.582	-0.271	-0.305	0.356	-0.622	-0.103	0.545	0.228	-0.027	0.526	-0.271
66	0.146	0.087	0.021	-0.213	-0.101	0.266	0.369	0.209	0.565	0.778	0.158	0.512	-0.500
67	0.487	-0.363	0.194	-0.081	0.295	0.027	0.625	-0.080	0.194	-0.363	-0.342	-0.699	-0.511
68	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
69	0.158	-0.037	0.018	0.220	0.123	-0.266	-0.071	0.096	0.018	-0.037	0.400	-0.373	0.220
70	0.459	-0.396	0.421	-0.046	-0.041	-0.253	0.149	0.295	0.421	0.332	-0.266	0.620	0.356
71	-0.689	-0.223	-0.287	0.274	0.025	-0.217	0.346	-0.305	-0.287	-0.223	-0.332	-0.104	-0.500
72	0.047	-0.016	0.113	-0.465	-0.305	0.356	0.436	0.437	-0.356	-0.016	-0.027	0.687	-0.067
73	-0.487	-0.139	-0.194	-0.387	-0.295	-0.027	-0.247	-0.424	-0.194	-0.139	-0.550	0.213	-0.387
74	-0.234	0.087	-0.319	-0.213	-0.415	0.539	0.041	-0.158	0.021	-0.266	0.158	0.087	-0.213
75	0.241	-0.228	-0.337	0.271	0.305	0.046	0.007	0.596	0.356	0.756	-0.387	0.384	-0.139
76	0.047	-0.016	0.728	-0.271	-0.305	-0.248	0.217	0.165	-0.121	-0.016	-0.027	0.526	0.139
77	0.017	-0.139	-0.194	0.081	0.191	-0.027	0.246	-0.424	0.305	0.363	-0.136	0.213	0.081
78	0.305	-0.521	0.528	-0.027	0.443	-0.060	-0.369	-0.379	0.528	-0.057	-0.097	-0.146	-0.234
79	-0.158	0.052	0.409	-0.007	-0.385	-0.071	0.651	-0.253	-0.113	-0.209	-0.140	-0.655	0.217
80	0.762	0.266	0.356	0.271	-0.692	0.440	0.007	0.103	-0.113	0.016	0.430	-0.526	0.465
81	-0.266	-0.325	0.356	0.094	-0.113	0.295	0.046	0.459	-0.387	-0.509	0.176	0.149	-0.237
82	0.071	0.229	-0.287	0.274	0.025	0.545	0.346	0.151	-0.287	0.229	0.037	0.251	-0.098
83	0.512	-0.228	0.356	-0.139	0.091	-0.158	-0.436	0.103	0.844	0.016	0.234	0.384	0.067
84	0.568	-0.113	0.266	-0.228	0.127	0.396	0.209	0.468	-0.027	0.191	0.057	0.092	0.515
85	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
86	0.060	-0.738	0.158	0.583	-0.206	-0.433	-0.220	-0.019	-0.697	-0.392	0.146	-0.369	0.384
87	-0.287	-0.057	-0.189	0.577	-0.209	0.147	0.506	0.172	0.046	0.198	0.322	-0.146	0.387
88	-0.248	0.092	0.415	-0.526	0.278	0.480	-0.220	0.459	0.158	-0.392	-0.332	0.016	-0.526
89	-0.464	0.409	-0.500	0.346	0.569	0.177	-0.158	0.391	-0.232	0.011	-0.287	0.248	0.047
90	0.715	0.057	0.189	0.027	-0.007	0.266	0.140	0.671	0.409	0.521	-0.116	0.570	-0.183
91	-0.047	0.016	-0.113	0.641	0.305	0.046	0.227	0.103	0.356	0.016	0.234	-0.526	0.271
92	1.000	-0.309	0.607	0.047	-0.369	0.177	-0.158	0.391	0.468	0.565	0.019	-0.060	0.346
93	-0.309	1.000	-0.266	-0.016	0.131	0.332	0.052	-0.206	0.027	0.113	0.198	-0.092	-0.016
94	0.607	-0.266	1.000	-0.356	0.031	0.194	-0.113	0.535	-0.060	-0.266	0.046	0.328	0.113
95	0.047	-0.016	-0.356	1.000	0.332	-0.248	-0.007	-0.359	-0.121	-0.016	-0.027	-0.583	0.139
96	-0.369	0.131	0.031	0.332	1.000	-0.252	-0.170	0.027	0.266	-0.127	-0.595	0.613	-0.305
97	0.177	0.332	0.194	-0.248	-0.252	1.000	-0.071	0.545	-0.037	-0.396	0.147	-0.029	-0.440
98	-0.158	0.052	-0.113	-0.007	-0.170	-0.071	1.000	0.046	-0.346	0.335	-0.140	-0.266	-0.007
99	0.391	-0.206	0.535	-0.359	0.027	0.545	0.046	1.000	0.535	0.613	0.172	0.309	-0.103
100	0.468	0.027	-0.060	-0.121	0.266	-0.037	-0.346	0.533	1.000	0.518	0.288	-0.158	-0.356
101	0.565	0.113	-0.266	-0.016	-0.127	-0.396	0.335	0.613	0.518	1.000	0.198	0.392	0.228
102	0.019	0.198	0.046	-0.027	-0.595	0.147	-0.140	0.172	0.288	0.198	1.000	-0.570	0.387
103	-0.060	-0.092	0.328	-0.583	0.613	-0.029	-0.266	0.309	-0.158	0.392	-0.570	1.000	0.087
104	0.346	-0.016	0.113	0.139	-0.305	-0.440	-0.007	-0.103	-0.356	0.228	0.387	0.087	1.000
105	0.342	-0.106	-0.183	-0.437	-0.027	0.231	-0.046	0.415	0.613	-0.106	0.379	-0.309	-0.165
106	0.158	-0.037	0.018	-0.356	0.123	0.312	-0.071	0.096	0.018	-0.571	-0.172	-0.373	0.220
107	0.158	-0.037	0.018	-0.356	0.123	0.312	-0.071	0.096	0.018	-0.571	-0.172	-0.373	0.220
108	0.158	-0.037	0.018	-0.356	0.123	0.312	-0.071	0.096	0.018	-0.571	-0.172	-0.373	0.220
109	0.158	-0.037	0.018	-0.356	0.123	0.312	-0.071	0.096	0.018	-0.571	-0.172	-0.373	0.220
110	0.158	-0.037	0.018	-0.356	0.123	0.312	-0.071	0.096	0.018	-0.571	-0.172	-0.373	0.220
111	0.487	0.139	0.194	-0.081	-0.191	0.027	-0.246	-0.080	0.194	-0.363	0.136	-0.213	0.387
112	0.158	-0.037	0.018	-0.356	0.123	0.312	-0.071	0.096	0.018	-0.571	-0.172	-0.373	0.220
113	0.487	0.139	0.194	-0.081	-0.191	0.027	-0.246	-0.080	0.194	-0.363	0.136	-0.213	0.387
114	-0.017	0.139	0.194	-0.511	0.295	0.027	0.247	0.424	0.194	-0.363	-0.342	-0.213	-0.081
115	-0.017	-0.363	-0.305	-0.081	0.295	0.027	0.247	-0.080	0.194	-0.363	-0.342	-0.213	-0.081
116	-0.248	0.092	0.158	-0.526	-0.206	0.029	0.655	-0.309	-0.328	-0.392	-0.332	0.016	0.384

	92	93	94	95	96	97	98	99	100	101	102	103	104
117	-0.146	0,266	0,319	-0,613	-0.468	0,318	0,516	-0,209	-0,565	-0,613	-0,158	-0,087	0,500
118	0.163	0,409	-0,232	-0,241	-0,087	0,800	0,158	-0,342	-0,232	-0,309	-0,287	-0,060	-0,241
119	-0.017	0,139	0,194	-0,511	0,295	0,471	-0,246	-0,080	-0,305	-0,698	-0,342	-0,213	-0,081
120	0.163	0,409	-0,232	-0,241	-0,087	0,800	0,158	-0,342	-0,232	-0,309	-0,287	-0,060	-0,241
121	0.158	-0,037	0,018	-0,356	0,123	0,312	-0,071	0,096	0,018	-0,571	-0,172	-0,373	0,220
122	-0.017	-0,363	0,194	-0,081	0,295	0,027	0,247	0,424	-0,305	-0,363	-0,342	-0,213	0,387
123	-0.017	-0,363	0,194	-0,081	0,295	0,027	0,247	0,424	-0,305	-0,363	-0,342	-0,213	0,387
124	-0.017	0,139	-0,305	-0,081	-0,191	0,471	0,247	-0,080	-0,305	-0,363	-0,342	-0,213	0,387
125	0.712	-0,087	0,319	-0,369	0,101	0,577	-0,041	0,662	0,319	-0,087	0,418	-0,087	0,500
126	-0.017	0,139	-0,305	-0,081	-0,191	0,471	0,247	-0,080	-0,305	-0,363	-0,342	-0,213	0,387
127	0.158	-0,037	0,018	-0,356	0,123	0,312	-0,071	0,096	0,018	-0,571	-0,172	-0,373	0,220
128	0.158	-0,037	0,018	-0,356	0,123	0,312	-0,071	0,096	0,018	-0,571	-0,172	-0,373	0,220
129	-0.017	0,139	-0,305	-0,081	0,295	0,471	-0,246	0,424	0,194	-0,363	-0,342	-0,213	-0,081
130	0.234	-0,087	0,319	-0,369	0,101	-0,266	-0,369	-0,209	0,319	-0,087	-0,158	-0,087	0,213
131	0.487	-0,363	0,194	-0,511	-0,191	0,471	-0,246	0,424	0,194	-0,363	0,136	-0,213	0,387
132	0.158	-0,037	0,018	-0,356	0,123	0,312	-0,071	0,096	0,018	-0,571	-0,172	-0,373	0,220
133	0.158	-0,037	0,018	-0,356	0,123	0,312	-0,071	0,096	0,018	-0,571	-0,172	-0,373	0,220
134	0.234	-0,087	0,319	-0,613	-0,468	0,577	-0,041	0,158	-0,021	-0,613	0,418	-0,087	0,500
135	0.158	-0,037	0,018	-0,356	0,123	0,312	-0,071	0,096	0,018	-0,571	-0,172	-0,373	0,220
136	0.158	-0,037	0,018	-0,356	0,123	0,312	-0,071	0,096	0,018	-0,571	-0,172	-0,373	0,220
137	0.060	-0,392	0,158	-0,526	0,278	0,029	-0,220	0,459	0,158	0,092	-0,332	0,016	0,583
138	-0.178	-0,098	0,387	-0,094	0,113	-0,628	0,288	-0,256	0,387	-0,098	0,158	-0,149	-0,094
139	-0.017	0,139	-0,305	-0,081	-0,588	0,027	0,247	0,424	0,194	0,139	0,550	-0,699	-0,081
140	-0.087	-0,027	0,060	-0,113	0,471	0,037	0,346	0,613	0,642	0,266	0,189	0,158	-0,337
141	-0.017	-0,363	-0,305	-0,511	0,295	-0,430	0,247	-0,080	0,194	-0,363	-0,342	-0,213	-0,081
142	0.232	-0,027	-0,430	0,121	-0,480	-0,194	-0,141	0,123	0,341	0,266	0,189	-0,328	0,562
143	0.309	-0,376	0,592	-0,459	-0,131	-0,332	0,209	0,206	0,266	-0,113	-0,198	0,092	0,016
144	0.266	-0,098	-0,024	-0,094	-0,223	-0,628	-0,046	-0,256	-0,024	0,325	-0,176	0,181	0,237
145	0.234	0,266	-0,021	0,213	0,101	-0,266	-0,041	0,662	0,319	0,266	-0,158	-0,087	-0,369
146	0.770	-0,363	0,194	-0,081	-0,191	0,471	0,247	0,424	0,194	0,139	-0,342	-0,699	-0,081
147	0.385	-0,229	-0,505	0,649	-0,025	-0,158	0,090	0,305	0,287	0,223	0,332	-0,251	0,098
148	-0.178	-0,426	0,387	-0,094	0,495	0,031	-0,046	0,738	-0,024	-0,098	-0,542	0,181	-0,094
149	-0.403	-0,098	-0,627	-0,094	-0,223	-0,295	0,288	-0,459	-0,356	-0,426	0,158	-0,149	0,237
150	-0.248	0,364	-0,328	-0,087	0,278	-0,620	-0,220	-0,309	-0,328	0,092	-0,332	0,016	0,384
151	-0.071	-0,229	0,287	-0,629	0,401	0,217	0,090	0,625	0,491	0,223	-0,452	0,104	-0,274
152	0.060	0,364	-0,328	0,583	0,278	-0,620	-0,220	-0,309	-0,328	0,092	-0,332	-0,369	0,384
153	-0.342	0,106	0,183	-0,359	-0,712	0,034	-0,253	-0,415	-0,123	-0,206	-0,097	0,309	-0,103
154	0.480	0,409	-0,232	0,346	-0,369	0,177	-0,158	-0,342	0,607	0,011	0,565	-0,820	0,047
155	-0.266	0,409	-0,232	0,346	0,224	0,177	-0,521	0,071	0,087	-0,309	-0,287	-0,060	-0,241
156	-0.071	0,223	-0,158	0,098	-0,025	-0,158	-0,346	-0,151	0,491	-0,229	0,332	-0,251	-0,274
157	-0.403	-0,098	-0,356	0,586	0,495	-0,295	-0,046	-0,256	-0,024	-0,426	-0,542	-0,149	-0,094
158	-0.332	0,443	-0,780	0,098	-0,025	0,588	-0,346	0,305	0,287	0,223	-0,452	0,104	-0,274
159	-0.332	0,223	-0,158	-0,274	0,401	-0,545	0,090	0,305	0,287	0,223	-0,037	0,104	-0,274
160	0.234	0,266	0,319	-0,369	0,415	0,577	-0,041	0,158	-0,021	-0,087	-0,158	-0,512	-0,613
161	0.060	0,092	-0,328	0,384	-0,206	-0,433	-0,220	-0,309	0,158	0,364	0,570	0,016	0,583
162	-0.248	0,092	0,415	-0,526	0,505	0,029	-0,220	-0,019	0,158	-0,392	0,146	0,016	-0,526
163	0.158	-0,443	0,409	0,217	0,060	-0,071	-0,223	-0,585	-0,113	-0,807	-0,140	-0,266	-0,227
164	0.060	0,364	0,158	-0,526	0,278	-0,433	-0,220	-0,019	0,158	0,092	0,146	0,016	-0,087
165	0.060	-0,392	0,158	-0,687	-0,206	-0,433	-0,220	-0,019	0,415	0,092	0,146	0,016	-0,526
166	9.990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990
167	9.990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990

	105	106	107	108	109	110	111	112	113	114	115	116	117
1	0.106	0.571	0.571	0.571	0.571	0.571	0.363	0.571	0.363	0.363	0.363	0.392	0.613
2	0.315	0.071	0.071	0.071	0.071	0.071	-0.247	0.071	-0.247	-0.247	-0.247	-0.266	0.041
3	-0.071	0.158	0.158	0.158	0.158	0.158	-0.017	0.158	-0.017	-0.017	-0.017	-0.248	-0.146
4	0.596	0.220	0.220	0.220	0.220	0.220	0.387	0.220	0.387	-0.081	-0.081	-0.087	0.213
5	0.103	0.220	0.220	0.220	0.220	0.220	0.387	0.220	0.387	-0.081	-0.081	-0.087	0.213
6	0.549	0.071	0.071	0.071	0.071	0.071	0.246	0.071	0.246	-0.247	-0.247	-0.266	0.041
7	-0.096	0.667	0.667	0.667	0.667	0.667	0.555	0.667	0.555	0.555	0.555	0.373	0.459
8	-0.424	0.555	0.555	0.555	0.555	0.555	0.421	0.555	0.421	0.421	0.421	0.213	0.309
9	0.342	0.158	0.158	0.158	0.158	0.158	-0.017	0.158	-0.017	-0.017	0.487	0.060	-0.146
10	0.415	0.096	0.096	0.096	0.096	0.096	-0.080	0.096	-0.080	-0.080	0.424	-0.019	-0.209
11	0.080	0.555	0.555	0.555	0.555	0.555	0.421	0.555	0.421	0.421	0.421	0.213	0.309
12	0.479	0.037	0.037	0.037	0.037	0.037	-0.139	0.037	-0.139	-0.139	-0.139	-0.304	-0.266
13	0.342	0.158	0.158	0.158	0.158	0.158	-0.017	0.158	-0.017	-0.017	-0.017	-0.248	-0.146
14	0.318	-0.123	-0.123	-0.123	-0.123	-0.123	0.191	-0.123	0.191	-0.295	-0.295	-0.278	-0.101
15	-0.071	0.158	0.158	0.158	0.158	0.158	-0.017	0.158	-0.017	-0.017	-0.017	-0.248	-0.146
16	0.256	0.224	0.224	0.224	0.224	0.224	0.052	0.224	0.052	0.052	0.052	-0.181	-0.077
17	0.106	0.037	0.037	0.037	0.037	0.037	0.363	0.037	0.363	-0.139	-0.139	-0.364	-0.266
18	-0.158	0.459	0.459	0.459	0.459	0.459	0.309	0.459	0.309	0.309	0.309	0.087	0.189
19	-0.424	0.555	0.555	0.555	0.555	0.555	0.421	0.555	0.421	0.421	0.878	0.699	0.309
20	0.253	-0.071	-0.071	-0.071	-0.071	-0.071	0.247	-0.071	0.247	-0.246	-0.246	-0.461	-0.369
21	0.022	0.096	0.096	0.096	0.096	0.096	0.424	0.096	0.424	-0.080	0.424	-0.019	-0.209
22	0.295	0.266	0.266	0.266	0.266	0.266	0.430	0.266	0.430	-0.027	-0.027	-0.029	0.266
23	0.151	0.295	0.295	0.295	0.295	0.295	0.128	0.295	0.128	0.623	0.128	0.251	0.409
24	-0.158	0.835	0.835	0.835	0.835	0.835	0.783	0.835	0.783	0.783	0.783	0.512	0.633
25	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
26	-0.096	0.667	0.667	0.667	0.667	0.667	0.555	0.667	0.555	0.555	0.555	0.373	0.459
27	-0.318	0.123	0.123	0.123	0.123	0.123	0.295	0.123	0.295	-0.191	0.295	0.278	0.101
28	-0.389	0.528	0.528	0.528	0.528	0.528	0.662	0.528	0.662	0.662	0.662	0.697	0.565
29	0.080	0.555	0.555	0.555	0.555	0.555	0.421	0.555	0.421	0.421	0.421	0.213	0.309
30	-0.294	0.096	0.096	0.096	0.096	0.096	-0.080	0.096	-0.080	-0.080	-0.080	0.459	0.662
31	-0.389	-0.018	-0.018	-0.018	-0.018	-0.018	0.305	-0.018	0.305	-0.194	-0.194	-0.415	-0.319
32	-0.492	0.266	0.266	0.266	0.266	0.266	0.430	0.266	0.430	-0.027	0.430	0.433	0.266
33	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
34	0.096	-0.667	-0.667	-0.667	-0.667	-0.667	-0.555	-0.667	-0.555	-0.555	-0.555	-0.373	-0.459
35	-0.613	0.667	0.667	0.667	0.667	0.667	0.555	0.667	0.555	0.555	0.555	0.373	0.459
36	-0.424	0.555	0.555	0.555	0.555	0.555	0.878	0.555	0.878	0.421	0.421	0.213	0.309
37	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
38	-0.690	0.071	0.071	0.071	0.071	0.071	0.246	0.071	0.246	0.246	0.246	0.461	0.369
39	-0.096	1.000	1.000	1.000	1.000	1.000	0.885	1.000	0.885	0.885	0.885	0.788	0.835
40	0.165	0.356	0.356	0.356	0.356	0.356	0.081	0.356	0.081	0.081	0.081	0.087	0.369
41	-0.424	0.555	0.555	0.555	0.555	0.555	0.421	0.555	0.421	0.878	0.421	0.213	0.309
42	-0.179	0.699	0.699	0.699	0.699	0.699	0.553	0.699	0.553	0.553	0.805	0.602	0.317
43	0.256	0.699	0.699	0.699	0.699	0.699	0.553	0.699	0.553	0.553	0.805	0.602	0.317
44	0.256	0.699	0.699	0.699	0.699	0.699	0.553	0.699	0.553	0.553	0.805	0.602	0.317
45	0.256	0.699	0.699	0.699	0.699	0.699	0.553	0.699	0.553	0.553	0.805	0.602	0.317
46	0.256	0.699	0.699	0.699	0.699	0.699	0.553	0.699	0.553	0.553	0.805	0.602	0.317
47	0.151	0.743	0.743	0.743	0.743	0.743	0.623	0.743	0.623	0.623	0.841	0.682	0.409
48	0.071	-0.158	-0.158	-0.158	-0.158	-0.158	0.017	-0.158	0.017	-0.487	-0.487	-0.528	-0.234
49	0.071	-0.158	-0.158	-0.158	-0.158	-0.158	0.017	-0.158	0.017	0.017	0.017	-0.060	-0.234
50	0.359	0.220	0.220	0.220	0.220	0.220	0.387	0.220	0.387	0.387	0.387	0.384	0.213
51	-0.106	-0.037	-0.037	-0.037	-0.037	-0.037	0.139	-0.037	0.139	-0.363	0.139	0.092	-0.087
52	0.654	0.528	0.528	0.528	0.528	0.528	0.662	0.528	0.662	0.305	0.305	0.328	0.565
53	0.415	0.613	0.613	0.613	0.613	0.613	0.424	0.613	0.424	0.424	0.734	0.459	0.158
54	0.231	0.312	0.312	0.312	0.312	0.312	0.027	0.312	0.027	0.471	0.471	0.029	-0.266
55	0.151	0.743	0.743	0.743	0.743	0.743	0.623	0.743	0.623	0.841	0.623	0.682	0.815
56	-0.179	0.224	0.224	0.224	0.224	0.224	0.052	0.224	0.052	0.052	0.553	0.602	0.317
57	0.485	0.123	0.123	0.123	0.123	0.123	0.295	0.123	0.295	0.295	-0.191	-0.613	-0.468
58	0.318	-0.123	-0.123	-0.123	-0.123	-0.123	-0.295	-0.123	-0.295	-0.295	-0.295	0.206	0.468

	105	106	107	108	109	110	111	112	113	114	115	116	117
59	-0.391	0.158	0.158	0.158	0.158	0.158	0.487	0.158	0.487	-0.017	0.487	0.060	-0.146
60	-0.097	0.172	0.172	0.172	0.172	0.172	0.342	0.172	0.342	0.342	0.342	0.545	0.459
61	-0.071	0.158	0.158	0.158	0.158	0.158	0.487	0.158	0.487	0.487	-0.017	-0.248	-0.146
62	-0.106	-0.037	-0.037	-0.037	-0.037	-0.037	0.139	-0.037	0.139	0.139	0.139	0.364	0.266
63	0.046	0.071	0.071	0.071	0.071	0.071	-0.247	0.071	-0.247	0.246	0.246	0.461	0.369
64	0.172	-0.400	-0.400	-0.400	-0.400	-0.400	-0.136	-0.400	-0.136	-0.136	-0.550	-0.146	0.158
65	0.359	0.220	0.220	0.220	0.220	0.220	0.387	0.220	0.387	-0.081	0.387	-0.087	-0.369
66	0.158	-0.835	-0.835	-0.835	-0.835	-0.835	-0.783	-0.835	-0.783	-0.783	-0.783	-0.512	-0.633
67	0.080	0.555	0.555	0.555	0.555	0.555	0.421	0.555	0.421	0.421	0.421	0.213	0.309
68	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
69	-0.613	0.667	0.667	0.667	0.667	0.667	0.555	0.667	0.555	0.555	0.555	0.373	0.459
70	0.231	0.312	0.312	0.312	0.312	0.312	0.471	0.312	0.471	0.471	0.027	0.029	0.318
71	-0.390	-0.295	-0.295	-0.295	-0.295	-0.295	-0.623	-0.295	-0.623	-0.128	-0.128	0.104	0.000
72	0.103	-0.356	-0.356	-0.356	-0.356	-0.356	-0.081	-0.356	-0.081	-0.081	-0.511	-0.087	0.213
73	0.424	-0.555	-0.555	-0.555	-0.555	-0.555	-0.421	-0.555	-0.421	-0.421	-0.421	-0.213	-0.309
74	0.158	-0.459	-0.459	-0.459	-0.459	-0.459	-0.309	-0.459	-0.309	-0.783	-0.309	-0.087	-0.189
75	-0.103	-0.220	-0.220	-0.220	-0.220	-0.220	-0.387	-0.220	-0.387	0.081	0.081	-0.384	-0.500
76	-0.709	0.220	0.220	0.220	0.220	0.220	0.387	0.220	0.387	0.387	0.387	0.583	0.500
77	0.734	-0.555	-0.555	-0.555	-0.555	-0.555	-0.421	-0.555	-0.421	-0.421	-0.421	-0.213	-0.309
78	-0.172	0.400	0.400	0.400	0.400	0.400	0.136	0.400	0.136	0.136	0.550	0.146	-0.158
79	-0.046	-0.071	-0.071	-0.071	-0.071	-0.071	-0.246	-0.071	-0.246	0.247	-0.246	0.266	0.516
80	-0.359	-0.220	-0.220	-0.220	-0.220	-0.220	0.081	-0.220	0.081	-0.387	-0.387	0.087	0.369
81	0.179	-0.224	-0.224	-0.224	-0.224	-0.224	-0.052	-0.224	-0.052	-0.052	-0.052	0.181	0.077
82	-0.151	-0.743	-0.743	-0.743	-0.743	-0.743	-0.623	-0.743	-0.623	-0.841	-0.623	-0.251	-0.409
83	0.709	0.356	0.356	0.356	0.356	0.356	0.511	0.356	0.511	0.511	0.081	-0.384	-0.213
84	0.479	0.571	0.571	0.571	0.571	0.571	0.363	0.571	0.363	0.363	0.363	-0.092	0.087
85	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
86	0.019	0.373	0.373	0.373	0.373	0.373	0.699	0.373	0.699	0.213	0.213	-0.016	0.087
87	-0.172	-0.172	-0.172	-0.172	-0.172	-0.172	-0.342	-0.172	-0.342	-0.342	0.136	0.570	0.418
88	-0.459	0.788	0.788	0.788	0.788	0.788	0.699	0.788	0.699	0.878	0.699	0.369	0.512
89	-0.071	0.158	0.158	0.158	0.158	0.158	-0.017	0.158	-0.017	-0.017	-0.017	-0.248	-0.146
90	0.172	0.172	0.172	0.172	0.172	0.172	0.342	0.172	0.342	0.342	0.342	0.332	0.158
91	0.437	0.356	0.356	0.356	0.356	0.356	0.511	0.356	0.511	0.081	0.081	-0.384	-0.213
92	0.342	0.158	0.158	0.158	0.158	0.158	0.487	0.158	0.487	-0.017	-0.017	-0.248	-0.146
93	-0.106	-0.037	-0.037	-0.037	-0.037	-0.037	0.139	-0.037	0.139	0.139	-0.363	0.092	0.266
94	-0.183	0.018	0.018	0.018	0.018	0.018	0.194	0.018	0.194	0.194	-0.305	0.158	0.319
95	-0.437	-0.356	-0.356	-0.356	-0.356	-0.356	-0.081	-0.356	-0.081	-0.511	-0.081	-0.526	-0.613
96	-0.027	0.123	0.123	0.123	0.123	0.123	-0.191	0.123	-0.191	0.295	0.295	-0.206	-0.468
97	0.231	0.312	0.312	0.312	0.312	0.312	0.027	0.312	0.027	0.027	0.027	0.029	0.318
98	-0.046	-0.071	-0.071	-0.071	-0.071	-0.071	-0.246	-0.071	-0.246	0.247	0.247	0.655	0.516
99	0.415	0.096	0.096	0.096	0.096	0.096	-0.080	0.096	-0.080	0.424	-0.080	-0.309	-0.209
100	0.613	0.018	0.018	0.018	0.018	0.018	0.194	0.018	0.194	0.194	0.194	-0.328	-0.565
101	-0.106	-0.571	-0.571	-0.571	-0.571	-0.571	-0.363	-0.571	-0.363	-0.363	-0.363	-0.392	-0.613
102	0.379	-0.172	-0.172	-0.172	-0.172	-0.172	0.136	-0.172	0.136	-0.342	-0.342	-0.332	-0.158
103	-0.309	-0.373	-0.373	-0.373	-0.373	-0.373	-0.213	-0.373	-0.213	-0.213	-0.213	0.016	-0.087
104	-0.165	0.220	0.220	0.220	0.220	0.220	0.387	0.220	0.387	-0.081	-0.081	0.384	0.500
105	1.000	-0.096	-0.096	-0.096	-0.096	-0.096	0.080	-0.096	0.080	0.080	-0.424	-0.459	-0.158
106	-0.096	1.000	1.000	1.000	1.000	1.000	0.885	1.000	0.885	0.885	0.885	0.788	0.835
107	-0.096	1.000	1.000	1.000	1.000	1.000	0.885	1.000	0.885	0.885	0.885	0.788	0.835
108	-0.096	1.000	1.000	1.000	1.000	1.000	0.885	1.000	0.885	0.885	0.885	0.788	0.835
109	-0.096	1.000	1.000	1.000	1.000	1.000	0.885	1.000	0.885	0.885	0.885	0.788	0.835
110	-0.096	1.000	1.000	1.000	1.000	1.000	0.885	1.000	0.885	0.885	0.885	0.788	0.835
111	0.080	0.885	0.885	0.885	0.885	0.885	1.000	0.885	1.000	0.878	0.878	0.699	0.783
112	-0.096	1.000	1.000	1.000	1.000	1.000	0.885	1.000	0.885	0.885	0.885	0.788	0.835
113	0.080	0.885	0.885	0.885	0.885	0.885	1.000	0.885	1.000	0.878	0.878	0.699	0.783
114	0.080	0.885	0.885	0.885	0.885	0.885	0.878	0.885	0.878	1.000	0.878	0.699	0.783
115	-0.424	0.885	0.885	0.885	0.885	0.885	0.878	0.885	0.878	0.878	1.000	0.878	0.783
116	-0.459	0.788	0.788	0.788	0.788	0.788	0.699	0.788	0.699	0.699	0.878	1.000	0.932

	105	106	107	108	109	110	111	112	113	114	115	116	117
117	-0.158	0.835	0.835	0.835	0.835	0.835	0.783	0.835	0.783	0.783	0.783	0.932	1.000
118	0.342	0.656	0.656	0.656	0.656	0.656	0.487	0.656	0.487	0.487	0.487	0.060	0.234
119	0.080	0.885	0.885	0.885	0.885	0.885	0.878	0.885	0.878	0.878	0.878	0.699	0.783
120	0.342	0.656	0.656	0.656	0.656	0.656	0.487	0.656	0.487	0.487	0.487	0.060	0.234
121	-0.096	1.000	1.000	1.000	1.000	1.000	0.885	1.000	0.885	0.885	0.885	0.788	0.835
122	0.080	0.885	0.885	0.885	0.885	0.885	0.878	0.885	0.878	0.878	0.878	0.699	0.783
123	0.080	0.885	0.885	0.885	0.885	0.885	0.878	0.885	0.878	0.878	0.878	0.699	0.783
124	-0.424	0.885	0.885	0.885	0.885	0.885	0.878	0.885	0.878	0.878	0.878	0.699	0.783
125	0.209	0.835	0.835	0.835	0.835	0.835	0.783	0.835	0.783	0.783	0.783	0.512	0.633
126	-0.424	0.885	0.885	0.885	0.885	0.885	0.878	0.885	0.878	0.878	0.878	0.699	0.783
127	-0.096	1.000	1.000	1.000	1.000	1.000	0.885	1.000	0.885	0.885	0.885	0.788	0.835
128	-0.096	1.000	1.000	1.000	1.000	1.000	0.885	1.000	0.885	0.885	0.885	0.788	0.835
129	0.080	0.885	0.885	0.885	0.885	0.885	0.878	0.885	0.878	0.878	0.878	0.699	0.783
130	-0.158	0.835	0.835	0.835	0.835	0.835	0.783	0.835	0.783	0.783	0.783	0.512	0.633
131	0.080	0.885	0.885	0.885	0.885	0.885	0.878	0.885	0.878	0.878	0.878	0.699	0.783
132	-0.096	1.000	1.000	1.000	1.000	1.000	0.885	1.000	0.885	0.885	0.885	0.788	0.835
133	-0.096	1.000	1.000	1.000	1.000	1.000	0.885	1.000	0.885	0.885	0.885	0.788	0.835
134	0.209	0.835	0.835	0.835	0.835	0.835	0.783	0.835	0.783	0.783	0.783	0.870	0.930
135	-0.096	1.000	1.000	1.000	1.000	1.000	0.885	1.000	0.885	0.885	0.885	0.788	0.835
136	-0.096	1.000	1.000	1.000	1.000	1.000	0.885	1.000	0.885	0.885	0.885	0.788	0.835
137	0.309	0.788	0.788	0.788	0.788	0.788	0.699	0.788	0.699	0.699	0.699	0.369	0.512
138	0.459	0.224	0.224	0.224	0.224	0.224	0.553	0.224	0.553	0.553	0.052	-0.181	-0.077
139	-0.424	0.555	0.555	0.555	0.555	0.555	0.421	0.555	0.421	0.421	0.421	0.213	0.309
140	0.183	-0.018	-0.018	-0.018	-0.018	-0.018	-0.194	-0.018	-0.194	0.305	0.305	-0.158	-0.319
141	0.080	0.555	0.555	0.555	0.555	0.555	0.421	0.555	0.421	0.421	0.421	0.213	0.309
142	0.183	-0.018	-0.018	-0.018	-0.018	-0.018	0.305	-0.018	0.305	0.305	-0.194	-0.415	-0.319
143	0.613	0.571	0.571	0.571	0.571	0.571	0.698	0.571	0.698	0.698	0.363	-0.092	0.087
144	0.459	0.224	0.224	0.224	0.224	0.224	0.553	0.224	0.553	0.052	0.052	0.149	0.317
145	0.209	0.459	0.459	0.459	0.459	0.459	0.783	0.459	0.783	0.783	0.309	0.087	0.189
146	0.080	0.555	0.555	0.555	0.555	0.555	0.421	0.555	0.421	0.421	0.421	0.213	0.309
147	0.151	0.295	0.295	0.295	0.295	0.295	0.623	0.295	0.623	0.128	0.623	0.251	0.000
148	0.256	0.224	0.224	0.224	0.224	0.224	0.052	0.224	0.052	0.052	0.052	-0.181	-0.077
149	-0.179	0.224	0.224	0.224	0.224	0.224	0.052	0.224	0.052	0.052	0.553	0.862	0.762
150	-0.459	0.373	0.373	0.373	0.373	0.373	0.213	0.373	0.213	0.213	0.213	0.369	0.512
151	0.151	0.743	0.743	0.743	0.743	0.743	0.623	0.743	0.623	0.841	0.841	0.662	0.409
152	-0.459	0.373	0.373	0.373	0.373	0.373	0.213	0.373	0.213	0.213	0.213	-0.016	0.087
153	-0.550	0.096	0.096	0.096	0.096	0.096	-0.080	0.096	-0.080	-0.080	-0.080	0.459	0.662
154	0.517	0.158	0.158	0.158	0.158	0.158	0.487	0.158	0.487	-0.017	-0.017	-0.248	-0.146
155	0.517	0.158	0.158	0.158	0.158	0.158	0.487	0.158	0.487	-0.017	-0.017	-0.248	-0.146
156	0.390	0.295	0.295	0.295	0.295	0.295	0.623	0.295	0.623	0.128	0.128	-0.104	0.000
157	-0.179	0.224	0.224	0.224	0.224	0.224	0.052	0.224	0.052	0.052	0.553	0.149	-0.077
158	-0.305	0.295	0.295	0.295	0.295	0.295	0.128	0.295	0.128	0.128	0.128	-0.104	0.000
159	-0.625	0.295	0.295	0.295	0.295	0.295	0.128	0.295	0.128	0.623	0.623	0.251	0.000
160	0.209	0.459	0.459	0.459	0.459	0.459	0.309	0.459	0.309	0.309	0.309	0.087	0.189
161	0.019	0.373	0.373	0.373	0.373	0.373	0.699	0.373	0.699	0.213	0.213	-0.016	0.087
162	0.019	0.373	0.373	0.373	0.373	0.373	0.213	0.373	0.213	0.213	0.213	-0.016	0.087
163	-0.046	0.486	0.486	0.486	0.486	0.486	0.625	0.486	0.625	0.247	0.625	0.266	-0.041
164	0.309	0.373	0.373	0.373	0.373	0.373	0.699	0.373	0.699	0.699	0.213	-0.016	0.087
165	0.019	0.373	0.373	0.373	0.373	0.373	0.213	0.373	0.213	0.213	0.213	-0.016	0.087
166	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
167	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990

	118	119	120	121	122	123	124	125	126	127	128	129	130
1	0.309	0,698	0.309	0,571	0.698	0,698	0,698	0,613	0,698	0,571	0,571	0,698	0,087
2	0.158	0,246	0.158	0.071	0,246	0.246	-0.247	0,369	-0,247	0,071	0,071	0,246	0,041
3	0.163	0.487	0.163	0.158	-0.017	-0.017	0,487	0,234	0,487	0,158	0,158	0,487	-0,146
4	0.047	0.387	0.047	0.220	0.387	0,387	-0,081	0,500	-0,081	0,220	0,220	0,387	0,213
5	0.346	0.387	0,346	0,220	-0.081	-0,081	0,387	0,500	0,387	0,220	0,220	-0,081	0,213
6	0.521	0.246	0.521	0.071	0.246	0.246	0.246	0,369	0,246	0,071	0,071	-0,247	0,041
7	0.656	0.555	0.656	0.667	0.555	0,555	0,555	0,459	0,555	0,667	0,667	0,555	0,459
8	0.487	0.421	0.487	0.555	0.421	0,421	0,421	0,309	0,421	0,555	0,555	0,421	0,309
9	0.715	0.487	0.715	0.158	-0.017	-0.017	-0.017	0,234	-0,017	0,158	0,158	-0,017	-0,146
10	0.639	0.424	0.639	0.096	-0.080	-0.080	-0.080	0,158	-0,080	0,096	0,096	-0,080	-0,209
11	0.487	0.421	0.487	0.555	0.421	0.421	0.421	0,783	0,421	0,555	0,555	0,421	0,309
12	0.568	-0.139	0.568	0.037	-0.139	-0.139	0.363	0,087	0,363	0,037	0,037	-0,139	-0,266
13	0.715	-0,017	0.715	0.158	-0.017	-0.017	0.487	0,234	0,487	0,158	0,158	-0,017	-0,146
14	-0.224	-0,295	-0.224	-0.123	-0.295	-0.295	-0.295	0,468	-0,295	-0,123	-0,123	-0,295	-0,101
15	0.163	-0,017	0.163	0.158	-0.017	-0.017	0,487	-0,146	0,487	0,158	0,158	-0,017	0,234
16	0.266	0,052	0.266	0.224	0.052	0.052	0,553	-0,077	0,553	0,224	0,224	0,052	-0,077
17	-0.565	-0,139	-0.565	0.037	-0.139	-0.139	-0.139	0,087	-0,139	0,037	0,037	-0,139	0,087
18	0.234	0,309	0.234	0.459	0.309	0.309	0.309	0,189	0,309	0,459	0,459	0,309	0,633
19	0.487	0.421	0.487	0.555	0.421	0.421	0.421	0,309	0,421	0,555	0,555	0,421	0,309
20	0.434	0.247	0.434	-0.071	-0.246	-0.246	0.247	-0,369	0,247	-0,071	-0,071	0,247	0,516
21	0.071	0,424	0.071	0.096	-0.080	-0.080	-0.080	0,158	-0,080	0,096	0,096	-0,080	0,158
22	0.403	-0,027	0.403	0.266	-0.027	-0.027	0.430	0,539	0,430	0,266	0,266	0,430	0,539
23	-0.332	0,128	-0.332	0.295	0.128	0.128	0.128	0,000	0,128	0,295	0,295	0,128	0,000
24	0.234	0,783	0.234	0.835	0.783	0,783	0.783	0,633	0,783	0,835	0,835	0,783	0,930
25	9.990	9,990	9,990	9.990	9.990	9.990	9.990	9,990	9,990	9,990	9,990	9,990	9,990
26	0.158	0,555	0.158	0.667	0.555	0.555	0.555	0,459	0,555	0,667	0,667	0,555	0,459
27	0.224	0,295	0.224	0.123	0.295	0,295	0.295	-0,468	0,295	0,123	0,123	-0,191	0,161
28	0.232	0,305	0.232	0.528	0.662	0.662	0.662	0,021	0,662	0,528	0,528	0,305	0,565
29	-0.017	0,421	-0.017	0.555	0.421	0.421	0.421	0,309	0,421	0,555	0,555	0,421	0,309
30	0.391	0,424	0.391	0.096	-0.080	-0.080	-0.080	-0,209	-0,080	0,096	0,096	-0,080	0,158
31	0.500	0,305	0.500	-0.018	-0.194	-0.194	-0.194	-0,319	-0,194	-0,018	-0,018	-0,194	0,021
32	0.113	0,430	0.113	0.266	-0.027	-0.027	-0.027	0,266	-0,027	0,266	0,266	-0,027	0,266
33	9.990	9,990	9,990	9.990	9.990	9.990	9.990	9,990	9,990	9,990	9,990	9,990	9,990
34	-0.158	-0,555	-0.158	-0.667	-0.555	-0.555	-0.555	-0,459	-0,555	-0,667	-0,667	-0,885	-0,459
35	0.158	0,555	0.158	0.667	0.555	0.555	0.555	0,459	0,555	0,667	0,667	0,555	0,835
36	-0.017	0,421	-0.017	0.555	0.421	0.421	0.421	0,309	0,421	0,555	0,555	0,421	0,783
37	9.990	9,990	9.990	9.990	9.990	9.990	9.990	9,990	9,990	9,990	9,990	9,990	9,990
38	-0.158	-0,247	-0.158	0.071	0.246	0.246	0.246	0,041	0,246	0,071	0,071	-0,247	0,041
39	0.656	0,885	0.656	1.000	0.885	0.885	0.885	0,835	0,885	1,000	1,000	0,885	0,835
40	0.241	0,511	0.241	0.356	0.511	0.511	0.081	0,369	0,081	0,356	0,356	0,081	0,369
41	-0.017	0.421	-0.017	0.555	0.421	0.421	0.421	0,309	0,421	0,555	0,555	0,421	0,309
42	-0.178	0.553	-0.178	0.699	0.553	0.553	0.553	0,762	0,553	0,699	0,699	0,805	0,317
43	-0.178	0.553	-0.178	0.699	0.553	0.553	0.553	0,762	0,553	0,699	0,699	0,805	0,317
44	-0.178	0,553	-0.178	0.699	0.553	0.553	0.553	0,762	0,553	0,699	0,699	0,805	0,317
45	-0.178	0,553	-0.178	0.699	0.553	0.553	0.553	0,762	0,553	0,699	0,699	0,805	0,317
46	-0.178	0,553	-0.178	0.699	0.553	0.553	0.553	0,762	0,553	0,699	0,699	0,805	0,317
47	-0.071	0,623	-0.071	0.743	0.623	0.623	0.623	0,815	0,623	0,743	0,743	0,841	0,409
48	0.464	0,017	0.464	-0.158	0.017	0.017	0.017	0,146	0,017	-0,158	-0,158	0,017	0,146
49	0.266	0,017	0.266	-0.158	0.017	0.017	0.017	-0,234	0,017	-0,158	-0,158	0,017	0,146
50	0.346	0,387	0.346	0.220	0.387	0.387	-0.081	-0,369	-0,081	0,220	0,220	0,387	0,500
51	0.565	0,139	0.565	-0.037	0.139	0.139	0.139	-0,087	0,139	-0,037	-0,037	-0,363	0,266
52	0.232	0,305	0.232	0.528	0.662	0.662	0.305	0,565	0,305	0,528	0,528	0,305	0,021
53	0.391	0,424	0.391	0.613	0.424	0.424	0.424	0,662	0,424	0,613	0,613	0,424	0,662
54	-0.113	0,471	-0.113	0.312	0.471	0.471	0.027	0,318	0,027	0,312	0,312	0,027	0,577
55	0.385	0,623	0.385	0.743	0.623	0.623	0.623	0,815	0,623	0,743	0,743	0,623	0,815
56	-0.403	0,052	-0.403	0.224	0.553	0.553	0.052	-0,077	0,052	0,224	0,224	0,553	-0,077
57	0.224	-0,191	0.224	0.123	0,295	0.295	0.295	0,415	0,295	0,123	0,123	-0,191	0,419
58	-0.224	-0,295	-0.224	-0.123	0.191	0.191	-0.295	-0.101	-0,295	-0,123	-0,123	-0,295	-0,101

	118	119	120	121	122	123	124	125	126	127	128	129	130
59	0.163	-0.017	0.163	0.158	-0.017	-0.017	0.487	0.234	0,487	0,158	0,158	-0,017	0,234
60	-0.305	-0,136	-0.305	0.172	0.342	0,342	-0.136	0,158	-0,136	0,172	0,172	0,342	0,459
61	-0.464	-0.017	-0.464	0.158	-0.017	-0.017	-0.017	-0,146	-0,017	0,158	0,158	-0,017	-0,146
62	0.011	0.139	0.011	-0.037	-0.363	-0.363	-0.363	-0,087	-0,363	-0,037	-0,037	0,139	-0,087
63	0.521	0.246	0.521	0.071	-0.247	-0.247	0.246	0,369	0,246	0,071	0,071	-0,247	0,041
64	-0.305	-0,136	-0.305	-0.400	-0.136	-0.136	-0.550	-0,418	-0,550	-0,400	-0,400	-0,136	-0,418
65	0.654	0.387	0.654	0.220	-0.081	-0.081	0.387	0,213	0,387	0,220	0,220	0,387	0,213
66	-0.234	-0,783	-0.234	-0.835	-0.783	-0.783	-0.783	-0,633	-0,783	-0,835	-0,835	-0,783	-0,633
67	0.487	0.421	0.487	0.555	0.421	0.421	0.421	0,309	0,421	0,555	0,555	0,421	0,309
68	9.990	9,990	9.990	9.990	9.990	9.990	9.990	9,990	9,990	9,990	9,990	9,990	9,990
69	0.158	0.555	0.158	0.667	0.555	0.555	0.555	0,459	0,555	0,667	0,667	0,555	0,835
70	0.177	0.027	0.177	0.312	0.471	0.471	0.471	0,577	0,471	0,312	0,312	0,027	0,577
71	-0.385	-0.623	-0.385	-0.295	-0.128	-0.128	-0.128	-0,815	-0,128	-0,295	-0,295	-0,128	0,000
72	0.346	-0,081	0.346	-0.356	-0.081	-0.081	-0.081	0,213	-0,081	-0,356	-0,356	-0,511	-0,613
73	0.017	-0.421	0.017	-0.555	-0.421	-0.421	-0.421	-0,783	-0,421	-0,555	-0,555	-0,421	-0,783
74	0.146	-0.309	0.146	-0.459	-0.309	-0.309	-0.309	-0,189	-0,309	-0,459	-0,459	-0,309	-0,189
75	0.241	-0,387	0.241	-0.220	0.081	0.081	0.081	-0,213	0,081	-0,220	-0,220	0,081	-0,500
76	-0.241	-0.081	-0.241	0.220	0.387	0.387	0.387	0,213	0,387	0,220	0,220	-0,081	0,500
77	0.017	-0.421	0.017	-0.555	-0.421	-0.421	-0.421	-0,309	-0,421	-0,555	-0,555	-0,421	-0,309
78	-0.287	0.136	-0.287	0.400	0.136	0.136	0.136	-0,158	0,136	0,400	0,400	0,136	0,648
79	-0.158	-0,246	-0.158	-0.071	-0.246	-0.246	0.247	-0,369	0,247	-0,071	-0,071	-0,246	-0,369
80	0.241	-0,387	0.241	-0.220	-0.387	-0.387	0.081	0,369	0,081	-0,220	-0,220	-0,387	-0,213
81	-0.266	-0.052	-0.266	-0.224	-0.052	-0.052	-0.553	0,077	-0,553	-0,224	-0,224	-0,052	-0,762
82	0.071	-0,623	0.071	-0.743	-0.623	-0.623	-0.623	-0,409	-0,623	-0,743	-0,743	-0,623	-0,901
83	-0.047	0.081	-0.047	0.356	0.081	0.081	0.081	0,613	0,081	0,356	0,356	0,081	0,613
84	0.568	0.363	0.568	0.571	0.698	0.698	0.363	0,778	0,363	0,571	0,571	0,363	0,087
85	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9,990	9,990	9,990	9,990	9,990	9,990
86	-0.248	0.213	-0.248	0.373	0.699	0.699	0.213	0,087	0,213	0,373	0,373	0,213	0,087
87	0.019	-0.342	0.019	-0.172	0.136	0.136	0.136	0,418	0,136	-0,172	-0,172	0,136	-0,158
88	0.060	0.699	0.060	0.788	0.699	0.699	0.699	0,512	0,699	0,788	0,788	0,699	0,512
89	0.163	-0.017	0.163	0.158	0.487	0.487	0.487	-0,146	0,487	0,158	0,158	0,487	-0,146
90	0.287	-0.136	0.287	0.172	0.342	0.342	-0.136	0,459	-0,136	0,172	0,172	0,342	0,459
91	0.241	0.081	0.241	0.356	0.511	0.511	0.511	0,369	0,511	0,356	0,356	0,511	0,369
92	0.163	-0,017	0.163	0.158	-0.017	-0.017	-0.017	0,712	-0,017	0,158	0,158	-0,017	0,234
93	0.409	0.139	0.409	-0.037	-0.363	-0.363	0.139	-0,087	0,139	-0,037	-0,037	0,139	-0,087
94	-0.232	0.194	-0.232	0.018	0.194	0.194	-0.305	0,319	-0,305	0,018	0,018	-0,305	0,319
95	-0.241	-0.511	-0.241	-0.356	-0.081	-0.081	-0.081	-0,369	-0,081	-0,356	-0,356	-0,081	-0,369
96	-0.087	0.295	-0.087	0.123	0.295	0.295	-0.191	0,101	-0,191	0,123	0,123	0,295	0,101
97	0.800	0.471	0.800	0.312	0.027	0.027	0.471	0,577	0,471	0,312	0,312	0,471	-0,266
98	0.158	-0.246	0.158	-0.071	0.247	0.247	0.247	-0,041	0,247	-0,071	-0,071	-0,246	-0,369
99	-0.342	-0.080	-0.342	0.096	0.424	0.424	-0.080	0,662	-0,080	0,096	0,096	0,424	-0,209
100	-0.232	-0.305	-0.232	0.018	-0.305	-0.305	-0.305	0,319	-0,305	0,018	0,018	0,194	0,319
101	-0.309	-0.698	-0.309	-0.571	-0.363	-0.363	-0.363	-0,087	-0,363	-0,571	-0,571	-0,363	-0,087
102	-0.287	-0.342	-0.287	-0.172	-0.342	-0.342	-0.342	0,418	-0,342	-0,172	-0,172	-0,342	-0,158
103	-0.060	-0.213	-0.060	-0.373	-0.213	-0.213	-0.213	-0,087	-0,213	-0,373	-0,373	-0,213	-0,087
104	-0.241	-0.081	-0.241	0.220	0.387	0.387	0.387	0,500	0,387	0,220	0,220	-0,081	0,213
105	0.342	0.080	0.342	-0.096	0.080	0.080	-0.424	0,209	-0,424	-0,096	-0,096	0,080	-0,158
106	0.656	0.885	0.656	1.000	0.885	0.885	0.885	0,835	0,885	1,000	1,000	0,885	0,835
107	0.656	0.885	0.656	1.000	0.885	0.885	0.885	0,835	0,885	1,000	1,000	0,885	0,835
108	0.656	0.885	0.656	1.000	0.885	0.885	0.885	0,835	0,885	1,000	1,000	0,885	0,835
109	0.656	0.885	0.656	1.000	0.885	0.885	0.885	0,835	0,885	1,000	1,000	0,885	0,835
110	0.656	0.885	0.656	1.000	0.885	0.885	0.885	0,835	0,885	1,000	1,000	0,885	0,835
111	0.487	0.878	0.487	0.885	0.878	0.878	0.878	0,783	0,878	0,885	0,885	0,878	0,783
112	0.656	0.885	0.656	1.000	0.885	0.885	0.885	0,835	0,885	1,000	1,000	0,885	0,835
113	0.487	0.878	0.487	0.885	0.878	0.878	0.878	0,783	0,878	0,885	0,885	0,878	0,783
114	0.487	0.878	0.487	0.885	0.878	0.878	0.878	0,783	0,878	0,885	0,885	0,878	0,783
115	0.487	0.878	0.487	0.885	0.878	0.878	0.878	0,783	0,878	0,885	0,885	0,878	0,783
116	0.060	0.699	0.060	0.788	0.699	0.699	0.699	0,512	0,699	0,788	0,788	0,699	0,512

	118	119	120	121	122	123	124	125	126	127	128	129	130
117	0.234	0.783	0.234	0.835	0.783	0.783	0.783	0.633	0.783	0.835	0.835	0.783	0.633
118	1.000	0.770	1.000	0.656	0.487	0.487	0.770	0.712	0.770	0.656	0.656	0.487	0.234
119	0.770	1.000	0.770	0.885	0.878	0.878	0.878	0.763	0.878	0.885	0.885	0.878	0.783
120	1.000	0.770	1.000	0.656	0.487	0.487	0.770	0.712	0.770	0.656	0.656	0.487	0.234
121	0.656	0.885	0.656	1.000	0.885	0.885	0.885	0.835	0.885	1.000	1.000	0.885	0.835
122	0.487	0.878	0.487	0.885	1.000	1.000	0.878	0.783	0.878	0.885	0.885	0.878	0.783
123	0.487	0.878	0.487	0.885	1.000	1.000	0.878	0.783	0.878	0.885	0.885	0.878	0.783
124	0.770	0.878	0.770	0.885	0.878	0.878	1.000	0.783	1.000	0.885	0.885	0.878	0.783
125	0.712	0.783	0.712	0.835	0.783	0.783	0.783	1.000	0.783	0.835	0.835	0.783	0.633
126	0.770	0.878	0.770	0.885	0.878	0.878	1.000	0.783	1.000	0.885	0.885	0.878	0.783
127	0.656	0.885	0.656	1.000	0.885	0.885	0.885	0.835	0.885	1.000	1.000	0.885	0.835
128	0.656	0.885	0.656	1.000	0.885	0.885	0.885	0.835	0.885	1.000	1.000	0.885	0.835
129	0.487	0.878	0.487	0.885	0.878	0.878	0.878	0.783	0.878	0.885	0.885	1.000	0.783
130	0.234	0.783	0.234	0.835	0.783	0.783	0.783	0.633	0.783	0.835	0.835	0.783	1.000
131	0.770	0.878	0.770	0.885	0.878	0.878	0.878	0.916	0.878	0.885	0.885	0.878	0.783
132	0.656	0.885	0.656	1.000	0.885	0.885	0.885	0.835	0.885	1.000	1.000	0.885	0.835
133	0.656	0.885	0.656	1.000	0.885	0.885	0.885	0.835	0.885	1.000	1.000	0.885	0.835
134	0.712	0.783	0.712	0.835	0.783	0.783	0.783	0.930	0.783	0.835	0.835	0.783	0.633
135	0.656	0.885	0.656	1.000	0.885	0.885	0.885	0.835	0.885	1.000	1.000	0.885	0.835
136	0.656	0.885	0.656	1.000	0.885	0.885	0.885	0.835	0.885	1.000	1.000	0.885	0.835
137	0.060	0.699	0.060	0.788	0.878	0.878	0.699	0.512	0.699	0.788	0.788	0.699	0.512
138	-0.178	0.553	-0.178	0.224	0.052	0.052	0.052	-0.077	0.052	0.224	0.224	0.052	-0.077
139	-0.017	0.421	-0.017	0.555	0.421	0.421	0.421	0.309	0.421	0.555	0.555	0.421	0.309
140	-0.087	0.305	-0.087	-0.018	-0.194	-0.194	-0.194	0.565	-0.194	-0.018	-0.018	0.305	0.021
141	-0.017	0.421	-0.017	0.555	0.421	0.421	0.421	0.309	0.421	0.555	0.555	0.421	0.309
142	0.232	-0.194	0.232	-0.018	-0.194	-0.194	0.305	0.021	0.305	-0.018	-0.018	-0.194	0.021
143	0.309	0.698	0.309	0.571	0.698	0.698	0.363	0.613	0.363	0.571	0.571	0.363	0.613
144	-0.403	0.052	-0.403	0.224	0.553	0.553	0.052	-0.077	0.052	0.224	0.224	0.052	0.317
145	-0.146	0.309	-0.146	0.459	0.309	0.309	0.309	0.189	0.309	0.459	0.459	0.783	0.189
146	0.487	0.421	0.487	0.555	0.421	0.421	0.421	0.309	0.421	0.555	0.555	0.421	0.309
147	-0.332	0.128	-0.332	0.295	0.128	0.128	0.128	0.409	0.128	0.295	0.295	0.623	0.000
148	-0.403	0.052	-0.403	0.224	0.553	0.553	0.052	-0.077	0.052	0.224	0.224	0.553	-0.077
149	-0.178	0.052	-0.178	0.224	0.052	0.052	0.052	-0.077	0.052	0.224	0.224	0.052	-0.077
150	-0.248	0.213	-0.248	0.373	0.213	0.213	0.213	0.087	0.213	0.373	0.373	0.213	0.087
151	-0.071	0.623	-0.071	0.743	0.623	0.623	0.623	0.409	0.623	0.743	0.743	0.623	0.409
152	-0.248	0.213	-0.248	0.373	0.213	0.213	0.213	0.087	0.213	0.373	0.373	0.213	0.087
153	-0.342	-0.080	-0.342	0.096	-0.080	-0.080	-0.080	-0.209	-0.080	0.096	0.096	-0.080	0.662
154	0.480	-0.017	0.480	0.158	-0.017	-0.017	-0.017	0.234	-0.017	0.158	0.158	-0.017	-0.146
155	0.163	0.487	0.163	0.158	0.487	0.487	-0.017	-0.146	-0.017	0.158	0.158	0.487	-0.146
156	-0.332	0.128	-0.332	0.295	0.128	0.128	0.128	0.000	0.128	0.295	0.295	0.623	0.000
157	-0.178	0.052	-0.178	0.224	0.553	0.553	0.052	-0.077	0.052	0.224	0.224	0.052	-0.077
158	0.385	0.128	0.385	0.295	0.128	0.128	0.623	0.000	0.623	0.295	0.295	0.623	0.000
159	-0.332	0.128	-0.332	0.295	0.128	0.128	0.128	0.000	0.128	0.295	0.295	0.128	0.000
160	0.712	0.783	0.712	0.459	0.309	0.309	0.309	0.189	0.309	0.459	0.459	0.309	0.189
161	0.060	0.213	0.060	0.373	0.213	0.213	0.699	0.087	0.699	0.373	0.373	0.213	0.087
162	0.060	0.699	0.060	0.373	0.213	0.213	0.213	0.087	0.213	0.373	0.373	0.213	0.512
163	-0.158	0.625	-0.158	0.486	0.247	0.247	0.247	0.516	0.247	0.486	0.486	0.247	0.516
164	0.060	0.699	0.060	0.373	0.213	0.213	0.213	0.087	0.213	0.373	0.373	0.213	0.087
165	-0.248	0.213	-0.248	0.373	0.213	0.213	0.213	0.087	0.213	0.373	0.373	0.213	0.512
166	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
167	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990

	131	132	133	134	135	136	137	138	139	140	141	142	143
1	0.363	0.571	0.571	0.613	0.571	0.571	0.392	-0.325	-0.139	0.027	-0.139	-0.266	0.113
2	0.246	0.071	0.071	0.369	0.071	0.071	0.220	-0.288	0.246	0.141	-0.247	-0.346	-0.209
3	-0.017	0.158	0.158	-0.146	0.158	0.158	-0.248	0.266	0.487	0.500	-0.017	-0.087	-0.011
4	0.387	0.220	0.220	0.500	0.220	0.220	-0.087	0.237	0.387	0.356	-0.081	0.121	0.266
5	0.387	0.220	0.220	0.500	0.220	0.220	-0.087	0.237	0.387	-0.113	-0.081	0.356	0.016
6	0.246	0.071	0.071	0.369	0.071	0.071	0.220	0.046	0.246	-0.113	-0.247	0.141	0.052
7	0.555	0.667	0.667	0.459	0.667	0.667	0.373	0.224	0.555	-0.018	0.555	0.528	0.037
8	0.421	0.555	0.555	0.309	0.555	0.555	0.213	0.052	0.421	-0.194	0.421	0.305	-0.139
9	-0.017	0.158	0.158	-0.146	0.158	0.158	-0.248	-0.178	-0.017	0.232	-0.017	-0.468	-0.409
10	-0.080	0.096	0.096	-0.209	0.096	0.096	-0.309	-0.256	-0.080	0.123	-0.080	-0.535	-0.479
11	0.421	0.555	0.555	0.309	0.555	0.555	0.213	0.052	0.421	0.305	0.421	-0.194	-0.139
12	-0.139	0.037	0.037	-0.266	0.037	0.037	-0.092	-0.325	0.363	-0.266	-0.139	0.027	-0.539
13	-0.017	0.158	0.158	-0.146	0.158	0.158	0.060	-0.178	0.487	-0.087	-0.017	0.232	-0.409
14	0.191	-0.123	-0.123	0.468	-0.123	-0.123	-0.278	-0.113	0.191	0.031	0.588	-0.217	0.131
15	-0.017	0.158	0.158	-0.146	0.158	0.158	-0.248	-0.178	0.487	0.232	-0.017	0.232	-0.409
16	0.052	0.224	0.224	-0.077	0.224	0.224	0.149	-0.087	0.553	-0.387	0.052	0.356	-0.325
17	-0.139	0.037	0.037	-0.266	0.037	0.037	-0.092	0.098	0.363	0.027	0.698	-0.266	0.113
18	0.309	0.459	0.459	0.189	0.459	0.459	0.087	-0.077	0.309	0.021	0.309	0.565	-0.266
19	0.421	0.555	0.555	0.309	0.555	0.555	0.213	0.052	0.421	0.305	0.421	-0.194	-0.139
20	-0.246	-0.071	-0.071	-0.369	-0.071	-0.071	-0.220	-0.046	-0.246	0.113	-0.246	-0.141	-0.052
21	-0.080	0.096	0.096	-0.209	0.096	0.096	-0.309	0.179	-0.080	0.389	0.424	0.123	-0.106
22	0.430	0.266	0.266	0.539	0.266	0.266	-0.480	-0.667	-0.471	-0.037	-0.027	-0.037	-0.158
23	0.128	0.295	0.295	0.000	0.295	0.295	0.251	0.473	0.128	0.158	0.623	0.158	0.229
24	0.783	0.835	0.835	0.633	0.835	0.835	0.512	0.317	0.309	0.565	0.783	0.021	0.613
25	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
26	0.555	0.667	0.667	0.459	0.667	0.667	0.373	0.699	0.555	0.528	0.885	-0.018	0.571
27	-0.191	0.123	0.123	-0.468	0.123	0.123	0.278	0.113	-0.588	-0.266	0.295	-0.031	-0.131
28	0.305	0.528	0.528	0.021	0.528	0.528	0.697	0.024	-0.194	-0.060	-0.194	0.430	0.290
29	0.421	0.555	0.555	0.309	0.555	0.555	0.213	0.805	0.878	0.662	0.878	0.305	0.698
30	-0.080	0.096	0.096	0.158	0.096	0.096	-0.309	0.179	-0.080	0.123	0.424	-0.535	-0.106
31	-0.194	-0.018	-0.018	-0.319	-0.018	-0.018	-0.415	0.356	0.662	-0.060	-0.194	0.198	0.027
32	-0.027	0.266	0.266	-0.318	0.266	0.266	-0.029	-0.031	0.430	0.194	-0.471	-0.037	-0.158
33	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
34	-0.555	-0.667	-0.667	-0.459	-0.667	-0.667	-0.373	-0.224	-0.555	-0.528	-0.555	0.018	-0.037
35	0.555	0.667	0.667	0.459	0.667	0.667	0.373	0.224	0.555	0.528	0.555	0.528	0.037
36	0.421	0.555	0.555	0.309	0.555	0.555	0.213	0.553	0.421	0.305	0.421	0.662	0.363
37	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
38	-0.247	0.071	0.071	0.041	0.071	0.071	0.461	-0.288	0.246	-0.113	-0.625	0.141	-0.209
39	0.885	1.000	1.000	0.835	1.000	1.000	0.788	0.224	0.555	-0.018	0.555	-0.018	0.571
40	0.081	0.356	0.356	0.369	0.356	0.356	0.687	-0.237	0.081	-0.121	-0.387	-0.356	-0.016
41	0.421	0.555	0.555	0.309	0.555	0.555	0.213	0.553	0.421	0.305	0.421	0.305	0.363
42	0.553	0.699	0.699	0.317	0.699	0.699	0.602	-0.339	0.052	0.356	0.052	-0.387	-0.325
43	0.553	0.699	0.699	0.317	0.699	0.699	0.602	-0.087	0.553	0.627	0.052	0.024	0.098
44	0.553	0.699	0.699	0.317	0.699	0.699	0.602	-0.087	0.553	0.627	0.052	0.024	0.098
45	0.553	0.699	0.699	0.317	0.699	0.699	0.602	-0.087	0.553	0.627	0.052	0.024	0.098
46	0.553	0.699	0.699	0.317	0.699	0.699	0.602	-0.087	0.553	0.627	0.052	0.024	0.098
47	0.423	0.743	0.743	0.409	0.743	0.743	0.682	-0.266	0.128	0.505	0.128	-0.287	-0.223
48	0.017	-0.158	-0.158	-0.234	-0.158	-0.158	-0.060	-0.266	-0.487	0.087	-0.487	0.087	0.409
49	-0.487	-0.158	-0.158	-0.234	-0.158	-0.158	-0.528	0.178	-0.487	0.087	-0.487	-0.232	0.011
50	-0.081	0.220	0.220	0.213	0.220	0.220	0.384	0.586	-0.081	0.121	-0.511	0.121	0.515
51	0.139	-0.037	-0.037	-0.087	-0.037	-0.037	-0.392	-0.098	-0.363	-0.027	0.139	0.266	0.539
52	0.662	0.528	0.528	0.747	0.528	0.528	0.697	0.356	-0.194	-0.341	0.305	-0.060	0.518
53	0.734	0.613	0.613	0.662	0.613	0.613	-0.019	0.179	0.424	0.123	0.424	0.389	0.468
54	0.471	0.312	0.312	0.318	0.312	0.312	0.654	0.353	0.027	0.266	0.027	0.484	0.618
55	0.841	0.743	0.743	0.815	0.743	0.743	0.251	0.019	0.128	0.158	0.128	0.158	0.816
56	0.052	0.224	0.224	-0.077	0.224	0.224	0.602	-0.087	0.052	0.024	0.052	-0.554	-0.325
57	0.295	0.123	0.123	0.101	0.123	0.123	0.505	0.113	-0.191	-0.031	-0.588	0.217	0.399
58	-0.295	-0.123	-0.123	-0.101	-0.123	-0.123	0.613	-0.495	0.191	-0.726	-0.295	-0.471	-0.399

	131	132	133	134	135	136	137	138	139	140	141	142	143
59	0.487	0.158	0.158	0.234	0.158	0.158	-0.248	-0.178	0.487	-0.087	-0.017	0.232	0.309
60	0.342	0.172	0.172	0.459	0.172	0.172	-0.146	-0.464	-0.136	0.046	-0.136	0.288	0.198
61	-0.017	0.158	0.158	-0.146	0.158	0.158	0.528	0.266	-0.017	-0.468	-0.017	0.232	-0.011
62	-0.363	-0.037	-0.037	-0.087	-0.037	-0.037	-0.738	0.509	0.139	0.592	0.139	-0.027	-0.113
63	0.246	0.071	0.071	0.369	0.071	0.071	-0.266	0.443	-0.247	0.687	0.246	0.409	0.052
64	-0.550	-0.400	-0.400	-0.418	-0.400	-0.400	-0.570	0.542	-0.136	0.288	-0.136	0.046	-0.057
65	0.387	0.220	0.220	0.213	0.220	0.220	0.384	-0.094	-0.081	-0.337	-0.081	0.121	0.016
66	-0.783	-0.835	-0.835	-0.633	-0.835	-0.835	-0.512	0.077	-0.309	0.319	-0.309	-0.021	-0.087
67	0.421	0.555	0.555	0.309	0.555	0.555	0.213	0.553	0.421	0.305	0.878	-0.194	0.363
68	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
69	0.555	0.667	0.667	0.459	0.667	0.667	0.373	0.224	0.555	0.528	0.555	0.528	0.037
70	0.471	0.312	0.312	0.318	0.312	0.312	0.480	0.353	-0.430	0.037	0.027	0.484	0.618
71	-0.623	-0.295	-0.295	-0.409	-0.295	-0.295	0.104	-0.473	-0.128	-0.505	-0.623	-0.505	-0.565
72	-0.081	-0.356	-0.356	0.213	-0.356	-0.356	0.384	0.237	-0.081	-0.113	-0.081	0.121	0.266
73	-0.421	-0.555	-0.555	-0.309	-0.555	-0.555	-0.213	-0.052	-0.421	-0.662	-0.421	-0.305	0.139
74	-0.309	-0.459	-0.459	-0.189	-0.459	-0.459	-0.087	-0.762	-0.309	-0.021	-0.309	-0.021	-0.087
75	0.081	-0.220	-0.220	-0.213	-0.220	-0.220	0.526	-0.237	0.081	-0.121	-0.387	0.113	-0.266
76	0.387	0.220	0.220	0.500	0.220	0.220	-0.087	-0.094	-0.081	0.121	-0.081	-0.113	0.515
77	-0.421	-0.555	-0.555	-0.309	-0.555	-0.555	-0.213	-0.052	-0.878	0.194	-0.421	0.194	0.139
78	0.136	0.400	0.400	-0.158	0.400	0.400	0.570	-0.176	-0.342	-0.046	0.136	-0.528	-0.198
79	-0.246	-0.071	-0.071	-0.041	-0.071	-0.071	-0.220	0.572	0.247	-0.141	0.247	0.113	-0.052
80	0.081	-0.220	-0.220	0.369	-0.220	-0.220	-0.384	-0.586	0.081	-0.356	-0.387	0.545	-0.515
81	-0.052	-0.224	-0.224	0.077	-0.224	-0.224	-0.149	0.339	-0.052	0.387	-0.553	-0.356	0.325
82	-0.623	-0.743	-0.743	-0.409	-0.743	-0.743	-0.251	-0.019	-0.128	-0.158	-0.128	-0.505	-0.565
83	0.511	0.356	0.356	0.369	0.356	0.356	0.526	0.409	-0.387	0.113	0.081	0.337	0.459
84	0.698	0.571	0.571	0.613	0.571	0.571	0.834	-0.509	-0.139	-0.266	-0.139	-0.266	0.113
85	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
86	0.213	0.373	0.373	0.087	0.373	0.373	0.369	0.149	0.213	-0.415	0.213	0.328	0.392
87	0.136	-0.172	-0.172	0.418	-0.172	-0.172	-0.332	-0.176	0.136	0.409	-0.342	0.189	-0.198
88	0.699	0.788	0.788	0.512	0.788	0.788	0.369	0.149	0.699	-0.158	0.213	-0.158	0.392
89	-0.017	0.158	0.158	-0.146	0.158	0.158	0.528	-0.403	-0.017	-0.087	-0.017	-0.087	-0.409
90	0.342	0.172	0.172	0.459	0.172	0.172	0.332	-0.464	-0.136	0.046	-0.550	0.046	0.198
91	0.081	0.356	0.356	-0.213	0.356	0.356	0.087	0.409	0.081	0.337	0.081	0.337	0.228
92	0.487	0.158	0.158	0.234	0.158	0.158	0.060	-0.178	-0.017	-0.087	-0.017	0.232	0.309
93	-0.363	-0.037	-0.037	-0.087	-0.037	-0.037	-0.392	-0.098	0.139	-0.027	-0.363	-0.027	-0.376
94	0.194	0.018	0.018	0.319	0.018	0.018	0.158	0.387	-0.305	0.060	-0.305	-0.430	0.592
95	-0.511	-0.356	-0.356	-0.613	-0.356	-0.356	-0.526	-0.094	-0.081	-0.113	-0.511	0.121	-0.459
96	-0.191	0.123	0.123	-0.468	0.123	0.123	0.278	0.113	-0.588	0.471	0.295	-0.480	-0.131
97	0.471	0.312	0.312	0.577	0.312	0.312	0.029	-0.628	0.027	0.037	-0.430	-0.194	-0.332
98	-0.246	-0.071	-0.071	-0.041	-0.071	-0.071	-0.220	0.288	0.247	0.346	0.247	-0.141	0.209
99	0.424	0.096	0.096	0.158	0.096	0.096	0.459	-0.256	0.424	0.613	-0.080	0.123	0.206
100	0.194	0.018	0.018	-0.021	0.018	0.018	0.158	0.387	0.194	0.642	0.194	0.341	0.266
101	-0.363	-0.571	-0.571	-0.613	-0.571	-0.571	0.092	-0.098	0.139	0.266	-0.363	0.265	-0.113
102	0.136	-0.172	-0.172	0.418	-0.172	-0.172	-0.332	0.158	0.550	0.189	-0.342	0.189	-0.198
103	-0.213	-0.373	-0.373	-0.087	-0.373	-0.373	0.016	-0.149	-0.699	0.158	-0.213	-0.328	0.092
104	0.387	0.220	0.220	0.500	0.220	0.220	0.583	-0.094	-0.081	-0.337	-0.081	0.582	0.016
105	0.080	-0.096	-0.096	0.209	-0.096	-0.096	0.309	0.459	-0.424	0.183	0.080	0.183	0.613
106	0.885	1.000	1.000	0.835	1.000	1.000	0.788	0.224	0.555	-0.018	0.555	-0.018	0.571
107	0.885	1.000	1.000	0.835	1.000	1.000	0.788	0.224	0.555	-0.018	0.555	-0.018	0.571
108	0.885	1.000	1.000	0.835	1.000	1.000	0.788	0.224	0.555	-0.018	0.555	-0.018	0.571
109	0.885	1.000	1.000	0.835	1.000	1.000	0.788	0.224	0.555	-0.018	0.555	-0.018	0.571
110	0.885	1.000	1.000	0.835	1.000	1.000	0.788	0.224	0.555	-0.018	0.555	-0.018	0.571
111	0.878	0.885	0.885	0.783	0.885	0.885	0.699	0.553	0.421	-0.194	0.421	0.305	0.698
112	0.885	1.000	1.000	0.835	1.000	1.000	0.788	0.224	0.555	-0.018	0.555	-0.018	0.571
113	0.878	0.885	0.885	0.783	0.885	0.885	0.699	0.553	0.421	-0.194	0.421	0.305	0.698
114	0.878	0.885	0.885	0.783	0.885	0.885	0.699	0.553	0.421	0.305	0.421	0.305	0.698
115	0.878	0.885	0.885	0.783	0.885	0.885	0.699	0.052	0.421	0.305	0.421	-0.194	0.363
116	0.699	0.788	0.788	0.870	0.788	0.788	0.369	-0.181	0.213	-0.158	0.213	-0.415	-0.092

	131	132	133	134	135	136	137	138	139	140	141	142	143
117	0.783	0.835	0.835	0.930	0.835	0.835	0.512	-0.077	0.309	-0.319	0.309	-0.319	0.087
118	0.770	0.656	0.656	0.712	0.656	0.656	0.060	-0.178	-0.017	-0.087	-0.017	0.232	0.309
119	0.878	0.885	0.885	0.783	0.885	0.885	0.699	0.553	0.421	0.305	0.421	-0.194	0.698
120	0.770	0.656	0.656	0.712	0.656	0.656	0.060	-0.178	-0.017	-0.087	-0.017	0.232	0.309
121	0.885	1.000	1.000	0.835	1.000	1.000	0.788	0.224	0.555	-0.018	0.555	-0.018	0.571
122	0.878	0.885	0.885	0.783	0.885	0.885	0.878	0.052	0.421	-0.194	0.421	-0.194	0.698
123	0.878	0.885	0.885	0.783	0.885	0.885	0.878	0.052	0.421	-0.194	0.421	-0.194	0.698
124	0.878	0.885	0.885	0.783	0.885	0.885	0.699	0.052	0.421	-0.194	0.421	0.305	0.363
125	0.916	0.835	0.835	0.930	0.835	0.835	0.512	-0.077	0.309	0.565	0.309	0.021	0.613
126	0.878	0.885	0.885	0.783	0.885	0.885	0.699	0.052	0.421	-0.194	0.421	0.305	0.363
127	0.885	1.000	1.000	0.835	1.000	1.000	0.788	0.224	0.555	-0.018	0.555	-0.018	0.571
128	0.885	1.000	1.000	0.835	1.000	1.000	0.788	0.224	0.555	-0.018	0.555	-0.018	0.571
129	0.878	0.885	0.885	0.783	0.885	0.885	0.699	0.052	0.421	0.305	0.421	-0.194	0.363
130	0.783	0.835	0.835	0.633	0.835	0.835	0.512	-0.077	0.309	0.021	0.309	0.021	0.613
131	1.000	0.885	0.885	0.916	0.885	0.885	0.699	0.052	0.421	0.305	0.421	0.305	0.698
132	0.885	1.000	1.000	0.835	1.000	1.000	0.788	0.224	0.555	-0.018	0.555	-0.018	0.571
133	0.885	1.000	1.000	0.835	1.000	1.000	0.788	0.224	0.555	-0.018	0.555	-0.018	0.571
134	0.916	0.835	0.835	1.000	0.835	0.835	0.512	-0.077	0.309	0.021	0.309	0.021	0.613
135	0.885	1.000	1.000	0.835	1.000	1.000	0.788	0.224	0.555	-0.018	0.555	-0.018	0.571
136	0.885	1.000	1.000	0.835	1.000	1.000	0.788	0.224	0.555	-0.018	0.555	-0.018	0.571
137	0.699	0.788	0.788	0.512	0.788	0.788	1.000	-0.181	0.213	-0.415	0.213	-0.158	0.392
138	0.052	0.224	0.224	-0.077	0.224	0.224	-0.181	1.000	0.553	0.627	0.553	0.356	0.871
139	0.421	0.555	0.555	0.309	0.555	0.555	0.213	0.553	1.000	0.305	0.421	0.305	0.363
140	0.305	-0.018	-0.018	0.021	-0.018	-0.018	-0.415	0.627	0.305	1.000	0.305	0.198	0.518
141	0.421	0.555	0.555	0.309	0.555	0.555	0.213	0.553	0.421	0.305	1.000	0.305	0.363
142	0.305	-0.018	-0.018	0.021	-0.018	-0.018	-0.158	0.356	0.305	0.198	0.305	1.000	0.290
143	0.698	0.571	0.571	0.613	0.571	0.571	0.392	0.871	0.363	0.518	0.363	0.290	1.000
144	0.052	0.224	0.224	0.317	0.224	0.224	0.149	-0.087	0.052	-0.554	0.553	0.024	0.426
145	0.309	0.459	0.459	0.189	0.459	0.459	0.087	0.769	0.309	0.565	0.309	0.565	0.613
146	0.421	0.555	0.555	0.309	0.555	0.555	0.699	0.052	0.421	-0.194	0.421	0.305	-0.139
147	0.128	0.295	0.295	0.000	0.295	0.295	-0.104	0.019	0.128	0.505	0.128	0.158	-0.223
148	0.052	0.224	0.224	-0.077	0.224	0.224	0.602	-0.087	0.052	0.356	0.553	-0.387	0.098
149	0.052	0.224	0.224	0.317	0.224	0.224	0.149	-0.339	0.052	-0.387	0.052	0.024	-0.509
150	0.213	0.373	0.373	0.087	0.373	0.373	0.369	-0.181	0.213	-0.415	0.213	-0.415	-0.364
151	0.623	0.743	0.743	0.409	0.743	0.743	0.682	0.019	0.128	0.505	0.128	0.158	0.229
152	0.213	0.373	0.373	0.087	0.373	0.373	-0.016	0.149	0.699	-0.158	0.213	-0.158	-0.092
153	-0.080	0.096	0.096	0.158	0.096	0.096	-0.309	-0.459	0.424	-0.535	0.424	0.123	-0.479
154	0.487	0.158	0.158	0.234	0.158	0.158	0.060	0.266	0.487	-0.087	-0.017	0.500	0.309
155	-0.017	0.158	0.158	-0.146	0.158	0.158	0.060	0.266	-0.017	-0.087	0.487	0.232	0.309
156	0.128	0.295	0.295	0.000	0.295	0.295	0.251	0.473	0.128	0.158	0.623	-0.287	0.229
157	0.052	0.224	0.224	-0.077	0.224	0.224	0.149	-0.339	0.052	-0.387	0.553	0.024	-0.325
158	0.128	0.295	0.295	0.000	0.295	0.295	-0.104	-0.266	0.623	-0.287	0.623	0.505	-0.443
159	0.128	0.295	0.295	0.000	0.295	0.295	0.251	0.019	0.623	0.158	0.128	-0.287	-0.223
160	0.309	0.459	0.459	0.189	0.459	0.459	0.087	0.317	0.309	0.565	0.309	-0.319	0.087
161	0.213	0.373	0.373	0.087	0.373	0.373	0.369	0.602	0.213	-0.415	0.213	0.328	-0.092
162	0.213	0.373	0.373	0.087	0.373	0.373	-0.016	0.602	0.213	0.806	0.699	-0.158	0.392
163	0.247	0.486	0.486	-0.041	0.486	0.486	-0.220	0.288	-0.246	0.113	0.247	-0.409	0.443
164	0.213	0.373	0.373	0.087	0.373	0.373	0.369	0.862	0.213	0.328	0.213	0.328	0.738
165	0.213	0.373	0.373	0.087	0.373	0.373	0.369	0.149	0.699	-0.158	0.699	-0.415	0.392
166	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
167	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990

	144	145	146	147	148	149	150	151	152	153	154	155	156
1	0.098	0.087	-0.139	0.565	0.098	0.098	-0.364	•0,223	•0,092	-0,479	-0,565	0,309	-0,223
2	0.046	•0,516	-0,247	-0,090	-0,288	-0,298	-0,266	•0,447	0,220	-0,046	-0,158	•0,158	•0,447
3	•0.403	0,234	-0,017	0,365	-0,178	-0,403	-0,248	•0,332	0,528	-0,517	0,163	0,480	0,385
4	0.237	0,213	-0,511	0,500	-0,094	-0,409	-0,687	•0,274	•0,526	-0,103	0,047	0,654	0,098
5	0.237	•0,369	-•0,511	0,098	-0,788	-0,094	-0,087	•0,629	•0,087	0,165	0,047	•0,241	•0,274
6	0.443	•0,516	-0,247	-0,090	-0,572	-0,288	-0,266	•0,447	•0,266	-0,315	0,521	0,158	-0,090
7	0.224	0,459	0,555	0,295	0,224	0,699	0,373	0,295	0,373	0,613	0,656	0,656	0,295
8	0.052	0,309	0,421	0,128	0,553	0,553	0,699	0,128	0,699	0,424	0,487	0,487	0,128
9	•0.178	•0,146	0,487	0,385	-0,403	0,266	0,060	•0,071	0,060	-0,342	0,163	0,163	-0,332
10	-0.256	•0,209	0,424	0,305	-0,459	0,179	-0,019	•0,151	•0,019	-0,415	0,391	0,391	-0,151
11	0.052	0,309	0,421	0,623	0,052	0,052	0,213	0,128	0,213	-0,080	•0,017	•0,017	0,128
12	•0.325	•0,266	0,363	-0,223	-0,509	0,098	0,392	•0,443	0,392	-0,479	0,770	•0,011	0,229
13	•0.403	•0,146	0,487	-0,071	-0,403	0,266	0,060	•0,332	0,060	-0,342	0,715	•0,266	-0,071
14	0.518	•0,101	-0,295	0,025	-0,113	-0,113	-0,278	•0,401	•0,505	0,485	0,087	•0,224	0,389
15	-0.178	•0,146	0,487	-0,332	-0,178	-0,403	0,060	•0,071	0,528	-0,342	0,480	•0,266	-0,071
16	-0.087	-0,077	0,052	-0,266	-0,339	0,363	0,602	-0,266	0,602	-0,256	0,796	0,266	0,473
17	0.426	0,087	-0,139	0,229	0,098	-0,325	-0,092	•0,223	•0,364	0,468	-0,011	-0,011	0,565
18	•0.077	0,189	0,309	0,000	-0,077	0,317	0,087	0,000	0,087	0,662	0,712	0,712	0,409
19	0.052	0,309	0,421	0,623	0,052	0,553	0,213	0,623	0,213	-0,080	-0,017	•0,017	0,128
20	•0.046	0,516	0,247	0,090	-0,046	-0,443	-0,220	•0,346	•0,461	-0,253	0,434	0,434	0,744
21	0.179	0,158	-0,080	0,625	-0,459	-0,256	•0,309	•0,151	•0,309	-0,022	0,071	0,639	0,305
22	0.628	0,266	-0,027	0,158	-0,353	-0,667	-0,480	•0,217	•0,460	0,231	0,113	0,113	0,158
23	-0.266	0,409	0,623	-0,191	0,473	0,019	0,251	0,571	•0,104	-0,151	-0,071	•0,071	0,571
24	•0.077	0,189	0,309	0,000	0,317	-0,077	0,087	0,409	0,087	0,158	-0,146	•0,146	0,409
25	9.990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990
26	0.224	0,459	0,555	0,295	0,699	0,224	0,373	0,295	0,373	0,096	0,158	0,158	0,743
27	0.113	•0,468	-0,191	-0,389	0,113	-0,223	-0,206	0,401	•0,206	0,027	-0,369	0,569	•0,025
28	0.024	0,565	0,305	0,158	0,024	0,024	-0,158	0,780	•0,415	-0,183	•0,468	•0,087	-0,287
29	0.052	0,309	0,421	0,128	0,553	0,052	0,213	0,128	0,699	•0,080	0,487	•0,017	0,623
30	-0.256	•0,209	0,424	-0,390	-0,256	0,179	-0,019	•0,390	•0,019	0,294	•0,342	•0,342	•0,151
31	•0.387	0,021	0,305	-0,287	-0,387	-0,387	-0,158	•0,491	0,328	0,389	0,500	0,232	-0,287
32	•0.353	•0,318	0,430	0,158	-0,031	-0,031	0,433	0,545	0,433	0,231	0,113	•0,177	-0,588
33	9.990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990
34	-0.224	•0,835	-0,555	-0,743	-0,699	-0,224	-0,373	•0,295	•0,373	-0,096	•0,158	•0,656	•0,743
35	0.224	0,459	0,555	0,295	0,224	0,224	0,373	0,295	0,373	0,613	0,158	0,158	0,295
36	0.553	0,783	0,421	0,623	0,052	0,052	0,213	0,128	0,213	0,424	0,487	0,487	0,623
37	9.990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990	9,990
38	-0.288	0,041	0,246	-0,090	0,046	0,443	0,220	0,535	0,220	0,253	0,158	-0,434	-0,447
39	0.224	0,459	0,555	0,295	0,224	0,224	0,373	0,743	0,373	0,096	0,158	0,158	0,295
40	0.094	•0,500	0,511	-0,500	0,094	-0,237	0,526	•0,098	0,687	-0,437	-0,047	•0,346	•0,500
41	0.052	0,783	0,421	0,128	0,553	0,052	0,699	0,623	0,699	•0,080	-0,017	•0,017	0,128
42	-0.339	0,317	0,553	0,755	0,662	-0,087	0,149	0,755	0,149	-0,459	-0,403	-0,178	0,019
43	•0.339	0,317	0,553	0,755	0,363	-0,087	•0,181	0,755	0,149	-0,459	•0,178	•0,178	0,019
44	•0.339	0,317	0,553	0,755	0,363	-0,087	-0,181	0,755	0,149	-0,459	-0,178	•0,178	0,019
45	•0.339	0,317	0,553	0,755	0,363	-0,087	-0,181	0,755	0,149	-0,459	-0,178	•0,178	0,019
46	•0.339	0,317	0,553	0,755	0,363	-0,087	-0,181	0,755	0,149	-0,459	-0,178	•0,178	0,019
47	-0.266	0,409	0,623	0,826	0,473	0,019	-0,104	0,826	•0,104	-0,390	-0,332	•0,071	0,124
48	-0.266	•0,234	0,017	0,071	0,403	-0,578	-0,060	•0,385	0,248	-0,391	0,266	0,266	0,071
49	0.403	0,146	-0,487	0,071	-0,266	-0,578	-0,528	0,071	0,248	-0,071	-0,163	0,464	-0,385
50	0.237	0,500	0,387	0,098	0,237	-0,094	-0,526	0,500	•0,087	•0,103	0,047	0,346	-0,274
51	0.325	•0,613	-0,363	-0,229	-0,426	-0,098	-0,392	•0,229	0,092	0,106	0,409	0,409	-0,229
52	0.356	0,021	0,662	-0,287	0,356	-0,387	-0,415	0,158	•0,415	-0,535	0,900	0,232	0,505
53	0.179	•0,209	-0,080	-0,151	-0,459	0,179	-0,309	0,305	•0,019	0,294	0,391	0,071	-0,390
54	0.031	•0,266	0,027	-0,158	0,031	0,031	0,029	0,588	0,029	-0,231	•0,113	•0,113	-0,543
55	0.019	0,409	0,128	-0,191	-0,266	0,019	0,251	0,571	•0,104	0,305	-0,071	•0,332	•0,191
56	•0.087	0,317	0,052	0,473	0,363	0,662	0,602	0,019	•0,181	-0,256	-0,178	0,266	0,473
57	0.113	0,101	0,295	-0,389	-0,223	-0,774	-0,206	0,401	0,278	•0,695	0,569	•0,369	•0,025
58	0.518	•0,415	0,191	-0,401	-0,113	0,518	0,613	•0,401	-0,278	0,485	-0,224	-0,224	-0,401

	144	145	146	147	148	149	150	151	152	153	154	155	156
59	0.578	0.234	-0.017	0.385	-0.403	-0.178	0.060	-0.071	0.060	0.071	0.163	-0.266	-0.071
60	0.668	0.459	-0.550	0.452	-0.158	0.342	-0.146	0.452	-0.570	0.754	-0.305	0.287	-0.332
61	0.266	0.712	0.487	-0.071	0.266	-0.178	0.820	0.385	0.820	-0.517	0.163	-0.266	0.385
62	-0.426	0.266	-0.363	0.443	-0.098	0.325	-0.392	0.223	-0.392	0.479	-0.309	0.011	-0.229
63	-0.572	-0.516	-0.247	-0.090	-0.572	0.595	-0.266	0.346	-0.655	0.253	0.158	-0.434	-0.447
64	0.542	0.459	-0.550	0.037	0.176	-0.158	0.332	0.332	0.332	0.379	-0.305	0.613	-0.332
65	0.237	0.213	-0.081	0.098	-0.409	-0.094	-0.087	0.098	-0.526	-0.103	0.346	0.654	0.500
66	0.077	-0.189	-0.309	-0.409	-0.317	-0.317	-0.512	-0.409	-0.512	0.209	0.146	0.146	0.000
67	0.052	0.309	0.878	0.128	0.553	0.052	0.213	0.128	0.213	-0.080	0.487	-0.017	0.623
68	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
69	0.224	0.459	0.555	0.295	0.224	0.224	0.373	0.295	0.373	0.613	0.158	0.158	0.295
70	0.353	0.318	0.027	-0.158	0.031	-0.295	0.029	0.217	-0.433	0.034	-0.113	-0.113	-0.158
71	-0.473	-0.409	-0.128	-0.571	0.266	0.266	0.104	0.191	0.104	0.151	-0.385	-0.689	-0.124
72	0.237	0.213	-0.081	-0.274	-0.094	0.237	0.384	-0.274	-0.526	0.165	0.047	0.047	0.098
73	-0.052	-0.309	-0.421	-0.623	-0.052	-0.052	-0.213	-0.128	-0.213	-0.424	0.017	0.017	-0.128
74	0.077	-0.633	-0.309	0.000	0.077	0.077	-0.087	-0.409	-0.512	0.209	0.146	0.146	0.000
75	-0.237	0.369	0.511	-0.098	0.094	0.094	0.087	0.274	0.087	-0.437	0.241	-0.047	-0.098
76	0.237	0.213	-0.511	-0.274	0.237	-0.094	-0.087	0.500	-0.087	0.165	-0.241	-0.241	0.098
77	-0.052	-0.309	-0.421	-0.128	-0.553	-0.052	-0.699	-0.128	-0.699	-0.424	0.017	0.017	-0.128
78	-0.542	-0.459	0.550	-0.452	0.158	-0.176	-0.332	0.669	-0.332	-0.097	0.019	-0.613	0.332
79	-0.443	-0.041	0.625	-0.535	0.288	-0.046	0.266	0.090	0.266	-0.253	0.158	-0.521	0.090
80	-0.237	-0.213	0.511	0.274	-0.586	0.409	-0.384	-0.500	-0.384	0.359	0.512	-0.047	-0.098
81	-0.363	0.077	-0.553	0.266	0.339	0.087	-0.149	0.266	0.181	-0.500	-0.266	0.178	-0.019
82	-0.019	-0.409	-0.128	-0.124	0.266	-0.019	0.104	-0.571	0.104	-0.305	0.332	0.332	0.191
83	0.094	0.369	0.081	-0.098	-0.237	-0.237	0.087	0.274	-0.384	-0.165	0.512	-0.047	0.629
84	-0.325	-0.266	0.698	-0.223	0.426	-0.325	0.392	0.229	-0.092	-0.613	0.309	-0.409	-0.223
85	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
86	0.602	0.512	0.213	0.682	0.149	0.149	-0.016	-0.104	-0.016	-0.019	0.060	0.528	0.251
87	-0.176	-0.158	-0.342	0.332	-0.176	0.464	-0.332	-0.452	-0.332	0.172	0.305	0.305	-0.037
88	-0.181	0.512	0.213	-0.104	-0.181	-0.181	-0.016	0.682	-0.016	0.459	-0.248	-0.248	-0.104
89	-0.178	0.234	-0.017	-0.071	0.796	0.266	0.528	-0.071	0.060	-0.342	0.163	0.400	0.385
90	0.542	0.459	0.342	0.452	-0.158	-0.158	-0.570	0.452	-0.146	0.097	-0.019	-0.019	-0.332
91	-0.237	0.369	0.081	0.629	0.409	-0.237	-0.583	-0.098	-0.384	-0.437	0.241	0.241	0.274
92	0.266	0.234	0.770	0.385	-0.178	-0.403	-0.248	-0.071	0.060	-0.342	0.480	-0.266	-0.071
93	-0.098	0.266	-0.363	-0.229	-0.426	-0.098	0.364	-0.229	0.364	0.106	0.409	0.409	0.223
94	-0.024	-0.021	0.194	-0.505	0.387	-0.627	-0.328	0.287	-0.328	0.183	-0.232	-0.232	-0.158
95	-0.094	0.213	-0.081	0.649	-0.094	-0.094	-0.087	-0.629	0.583	-0.359	0.346	0.346	0.098
96	-0.223	0.101	-0.191	-0.025	0.495	-0.223	0.278	0.401	0.278	-0.242	-0.369	0.224	-0.025
97	-0.628	-0.266	0.471	-0.158	0.031	-0.295	-0.620	0.217	-0.620	0.034	0.177	0.177	-0.158
98	-0.046	-0.041	0.247	0.090	-0.046	0.288	-0.220	0.090	-0.220	-0.253	-0.158	-0.521	-0.346
99	-0.256	0.662	0.424	0.305	0.738	-0.459	-0.309	0.625	-0.309	-0.415	-0.342	0.071	-0.151
100	-0.024	0.319	0.194	0.287	-0.024	-0.356	-0.328	0.491	-0.328	-0.123	0.607	0.087	0.491
101	0.325	0.266	0.139	0.223	-0.098	-0.426	0.092	0.223	0.092	-0.206	0.011	-0.309	-0.229
102	-0.176	-0.158	-0.342	0.332	-0.542	0.158	-0.332	-0.452	-0.332	-0.097	0.565	-0.287	0.332
103	0.181	-0.087	-0.699	-0.251	0.181	-0.149	0.016	0.104	-0.369	0.309	-0.820	-0.060	-0.251
104	0.237	-0.369	-0.081	0.098	-0.094	0.237	0.384	-0.274	0.384	-0.103	0.047	-0.241	-0.274
105	0.459	0.209	0.080	0.151	0.256	-0.179	-0.459	0.151	-0.459	-0.550	0.517	0.517	0.390
106	0.224	0.459	0.555	0.295	0.224	0.224	0.373	0.743	0.373	0.096	0.158	0.158	0.295
107	0.224	0.459	0.555	0.295	0.224	0.224	0.373	0.743	0.373	0.096	0.158	0.158	0.295
108	0.224	0.459	0.555	0.295	0.224	0.224	0.373	0.743	0.373	0.096	0.158	0.158	0.295
109	0.224	0.459	0.555	0.295	0.224	0.224	0.373	0.743	0.373	0.096	0.158	0.158	0.295
110	0.224	0.459	0.555	0.295	0.224	0.224	0.373	0.743	0.373	0.096	0.158	0.158	0.295
111	0.553	0.783	0.421	0.623	0.052	0.052	0.213	0.623	0.213	-0.080	0.487	0.487	0.623
112	0.224	0.459	0.555	0.295	0.224	0.224	0.373	0.743	0.373	0.096	0.158	0.158	0.295
113	0.553	0.783	0.421	0.623	0.052	0.052	0.213	0.623	0.213	-0.080	0.487	0.487	0.623
114	0.052	0.783	0.421	0.128	0.052	0.052	0.213	0.841	0.213	-0.080	-0.017	-0.017	0.128
115	0.052	0.309	0.421	0.623	0.052	0.553	0.213	0.841	0.213	-0.080	-0.017	-0.017	0.128
116	0.149	0.087	0.213	0.251	-0.181	0.862	0.369	0.682	-0.016	0.459	-0.248	-0.248	-0.104

	144	145	146	147	148	149	150	151	152	153	154	155	156
117	0.317	0.189	0.309	0.000	-0.077	0.762	0.512	0.409	0.087	0.662	-0.146	-0.146	0.000
118	-0.403	-0.146	0.487	-0.332	-0.403	-0.178	-0.248	-0.071	-0.248	-0.342	0.480	0.163	-0.332
119	0.052	0.309	0.421	0.128	0.052	0.052	0.213	0.623	0.213	-0.080	-0.017	0.487	0.128
120	-0.403	-0.146	0.487	-0.332	-0.403	-0.178	-0.248	-0.071	-0.248	-0.342	0.480	0.163	-0.332
121	0.224	0.459	0.555	0.295	0.224	0.224	0.373	0.743	0.373	0.096	0.158	0.158	0.295
122	0.553	0.309	0.421	0.128	0.553	0.052	0.213	0.623	0.213	-0.080	-0.017	0.487	0.128
123	0.553	0.309	0.421	0.128	0.553	0.052	0.213	0.623	0.213	-0.080	-0.017	0.487	0.128
124	0.052	0.309	0.421	0.128	0.052	0.052	0.213	0.623	0.213	-0.080	-0.017	-0.017	0.128
125	-0.077	0.189	0.309	0.409	-0.077	-0.077	0.087	0.409	0.087	-0.209	0.234	-0.146	0.000
126	0.052	0.309	0.421	0.128	0.052	0.052	0.213	0.623	0.213	-0.080	-0.017	-0.017	0.128
127	0.224	0.459	0.555	0.295	0.224	0.224	0.373	0.743	0.373	0.096	0.158	0.158	0.295
128	0.224	0.459	0.555	0.295	0.224	0.224	0.373	0.743	0.373	0.096	0.158	0.158	0.295
129	0.052	0.783	0.421	0.623	0.553	0.052	0.213	0.623	0.213	-0.080	-0.017	0.487	0.623
130	0.317	0.189	0.309	0.000	-0.077	-0.077	0.087	0.409	0.087	0.662	-0.146	-0.146	0.000
131	0.052	0.309	0.421	0.128	0.052	0.052	0.213	0.623	0.213	-0.080	0.487	-0.017	0.128
132	0.224	0.459	0.555	0.295	0.224	0.224	0.373	0.743	0.373	0.096	0.158	0.158	0.295
133	0.224	0.459	0.555	0.295	0.224	0.224	0.373	0.743	0.373	0.096	0.158	0.158	0.295
134	0.317	0.189	0.309	0.000	-0.077	0.317	0.087	0.409	0.087	0.158	0.234	-0.146	0.000
135	0.224	0.459	0.555	0.295	0.224	0.224	0.373	0.743	0.373	0.096	0.158	0.158	0.295
136	0.224	0.459	0.555	0.295	0.224	0.224	0.373	0.743	0.373	0.096	0.158	0.158	0.295
137	0.149	0.087	0.699	-0.104	0.602	0.149	0.369	0.682	-0.016	-0.309	0.060	0.060	0.251
138	-0.087	0.762	0.052	0.019	-0.087	-0.339	-0.181	0.019	0.149	-0.459	0.266	0.266	0.473
139	0.052	0.309	0.421	0.128	0.052	0.052	0.213	0.128	0.699	0.424	0.487	-0.017	0.128
140	-0.554	0.565	-0.194	0.505	0.356	-0.387	-0.415	0.505	-0.158	-0.535	-0.087	-0.087	0.158
141	0.553	0.309	0.421	0.128	0.553	0.052	0.213	0.128	0.213	0.424	-0.017	0.487	0.623
142	0.024	0.565	0.305	0.158	-0.387	0.024	-0.415	0.158	-0.158	0.123	0.500	0.232	-0.287
143	0.426	0.613	-0.139	-0.223	0.098	-0.509	-0.364	0.229	-0.092	-0.479	0.309	0.309	0.229
144	1.000	0.317	0.052	0.019	-0.087	-0.087	0.149	-0.266	0.149	0.500	-0.178	0.578	0.019
145	0.317	1.000	0.309	0.815	0.317	-0.077	0.087	0.409	0.087	-0.209	0.234	0.712	0.815
146	0.052	0.309	1.000	0.128	0.553	0.052	0.213	0.623	0.213	-0.080	0.487	-0.017	0.128
147	0.019	0.815	0.128	1.000	0.019	0.473	-0.104	0.124	-0.104	-0.390	-0.071	0.385	0.571
148	-0.087	0.317	0.553	0.019	1.000	-0.339	0.149	0.473	0.149	-0.459	-0.403	0.266	0.473
149	-0.087	-0.077	0.052	0.473	-0.339	1.000	0.602	0.019	-0.181	0.500	0.266	-0.178	0.019
150	0.149	0.087	0.213	-0.104	0.149	0.602	1.000	-0.104	0.770	-0.019	0.060	-0.248	0.251
151	-0.266	0.409	0.623	0.124	0.473	0.019	-0.104	1.000	-0.104	-0.390	-0.332	-0.332	-0.191
152	0.149	0.087	0.213	-0.104	0.149	-0.181	0.770	-0.104	1.000	-0.309	0.060	-0.248	-0.104
153	0.500	-0.209	-0.080	-0.390	-0.459	0.500	-0.019	-0.390	-0.309	1.000	-0.342	0.071	-0.390
154	-0.178	0.234	0.487	-0.071	-0.403	0.266	0.060	-0.332	0.060	-0.342	1.000	0.480	0.689
155	0.578	0.712	-0.017	0.385	0.266	-0.178	-0.248	-0.332	-0.248	0.071	0.480	1.000	0.689
156	0.019	0.815	0.128	0.571	0.473	0.019	0.251	-0.191	-0.104	-0.390	0.689	0.689	1.000
157	0.363	-0.077	0.052	0.019	0.363	0.363	0.149	0.019	0.149	0.179	0.266	0.796	0.019
158	0.019	0.409	0.128	0.124	0.019	0.019	-0.104	-0.191	-0.104	0.625	-0.071	0.689	0.124
159	-0.266	0.409	0.128	0.124	0.019	0.473	0.682	0.571	0.251	-0.151	-0.071	-0.332	0.124
160	-0.077	0.189	0.783	0.000	0.317	-0.077	0.087	0.409	0.087	-0.209	0.234	0.234	0.000
161	0.149	0.512	0.213	0.251	-0.181	0.149	0.369	-0.104	-0.016	-0.309	0.528	0.060	0.682
162	-0.181	0.087	0.213	-0.104	0.602	-0.181	-0.016	0.251	-0.016	-0.019	-0.248	0.060	0.251
163	-0.046	-0.041	-0.246	0.744	-0.046	-0.046	-0.220	0.090	-0.220	-0.253	-0.158	0.158	0.447
164	0.149	0.870	0.213	0.251	-0.181	0.149	0.369	0.251	-0.016	-0.309	0.528	0.528	0.682
165	0.149	0.087	0.213	-0.104	0.149	0.149	0.369	-0.104	-0.016	0.459	0.060	-0.248	0.682
166	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
167	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990

	157	158	159	160	161	162	163	164	165	166	167
1	-0.325	0.229	-0.443	0.087	-0.092	-0.092	0.209	-0.092	-0.364	9,990	9,990
2	-0.572	-0.090	-0.447	0.369	-0.266	0.220	-0.468	-0.266	-0.266	9,990	9,990
3	-0.178	0.385	-0.332	0.234	0.060	0.060	0.158	0.060	-0.248	9,990	9,990
4	-0.094	0.098	-0.629	0.213	-0.087	0.384	-0.007	-0.087	-0.526	9,990	9,990
5	-0.705	0.098	-0.274	-0.369	0.583	-0.087	-0.007	0.384	-0.087	9,990	9,990
6	-0.288	-0.090	-0.447	0.369	0.461	0.220	-0.256	0.220	-0.266	9,990	9,990
7	0.699	0.743	0.295	0.459	0.373	0.373	-0.071	0.373	0.373	9,990	9,990
8	0.805	0.623	0.623	0.309	0.213	0.213	0.247	0.213	0.213	9,990	9,990
9	0.266	-0.071	-0.071	0.712	-0.248	0.060	0.158	0.060	-0.248	9,990	9,990
10	0.500	-0.151	-0.151	0.662	-0.309	-0.019	0.315	-0.019	-0.309	9,990	9,990
11	0.052	0.128	0.128	0.309	0.213	0.213	0.247	0.213	0.213	9,990	9,990
12	0.098	0.229	-0.223	0.087	0.392	-0.364	-0.335	-0.092	-0.092	9,990	9,990
13	-0.178	0.385	-0.071	0.234	0.528	-0.248	-0.521	0.060	0.060	9,990	9,990
14	-0.495	0.025	0.025	-0.101	0.206	0.206	0.170	0.206	0.749	9,990	9,990
15	-0.178	-0.071	-0.332	0.712	0.060	0.528	-0.521	-0.248	-0.248	9,990	9,990
16	0.363	0.473	0.019	-0.077	0.602	-0.181	-0.443	0.149	0.149	9,990	9,990
17	-0.325	0.229	0.229	0.087	0.392	0.392	0.443	0.392	0.834	9,990	9,990
18	0.762	0.409	0.000	0.189	0.087	0.512	-0.041	0.087	0.087	9,990	9,990
19	0.553	0.128	0.623	0.309	0.213	0.213	0.247	0.213	0.213	9,990	9,990
20	-0.443	0.090	-0.346	0.715	0.655	0.655	0.023	0.655	0.266	9,990	9,990
21	0.500	-0.151	-0.151	0.158	-0.019	0.459	0.549	0.459	-0.309	9,990	9,990
22	-0.353	0.158	-0.713	0.266	-0.029	-0.029	0.071	-0.480	-0.480	9,990	9,990
23	0.019	-0.191	0.124	0.000	-0.104	0.251	0.090	0.251	0.251	9,990	9,990
24	-0.077	0.000	0.000	0.189	0.087	0.870	0.516	0.087	0.512	9,990	9,990
25	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9,990	9,990
26	0.224	0.295	0.295	0.459	0.373	0.788	0.486	0.373	0.788	9,990	9,990
27	0.495	-0.025	-0.707	0.101	0.278	0.505	0.060	-0.206	-0.613	9,990	9,990
28	0.024	-0.287	0.158	-0.319	0.328	-0.158	-0.141	0.328	-0.415	9,990	9,990
29	0.052	0.128	0.128	0.309	0.213	0.699	0.247	0.213	0.699	9,990	9,990
30	-0.459	-0.390	-0.390	0.662	-0.309	0.779	-0.253	-0.019	-0.019	9,990	9,990
31	0.024	0.158	0.158	0.565	-0.158	0.328	0.113	0.328	-0.158	9,990	9,990
32	-0.031	-0.217	0.158	0.539	-0.480	0.433	0.291	-0.029	-0.480	9,990	9,990
33	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9,990	9,990
34	-0.224	-0.743	-0.295	-0.459	-0.373	-0.373	0.071	-0.373	-0.373	9,990	9,990
35	0.224	0.295	0.295	0.459	0.373	0.788	-0.071	0.373	0.373	9,990	9,990
36	0.052	0.128	0.128	0.309	0.699	0.699	0.247	0.699	0.213	9,990	9,990
37	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9,990	9,990
38	0.046	-0.090	0.535	0.041	0.220	-0.266	-0.256	0.220	-0.266	9,990	9,990
39	0.224	0.295	0.295	0.459	0.373	0.373	0.486	0.373	0.373	9,990	9,990
40	-0.237	-0.649	-0.098	0.369	-0.384	0.087	-0.217	0.087	-0.384	9,990	9,990
41	0.553	0.128	0.841	0.309	0.213	0.213	0.247	0.699	0.213	9,990	9,990
42	0.363	0.019	0.473	-0.077	-0.181	-0.181	0.572	-0.181	-0.181	9,990	9,990
43	-0.087	0.019	0.019	-0.077	-0.181	-0.181	0.288	-0.181	-0.181	9,990	9,990
44	-0.087	0.019	0.019	-0.077	-0.181	-0.181	0.288	-0.181	-0.181	9,990	9,990
45	-0.087	0.019	0.019	-0.077	-0.181	-0.181	0.288	-0.181	-0.181	9,990	9,990
46	-0.087	0.019	0.019	-0.077	-0.181	-0.181	0.288	-0.181	-0.181	9,990	9,990
47	0.019	0.124	0.124	0.000	-0.104	-0.104	0.447	-0.104	-0.104	9,990	9,990
48	-0.266	-0.385	-0.887	0.146	-0.528	0.248	0.521	-0.528	-0.528	9,990	9,990
49	0.403	0.071	-0.385	0.146	-0.060	-0.060	0.158	-0.060	-0.820	9,990	9,990
50	0.237	-0.274	0.098	0.213	-0.087	-0.087	-0.007	0.384	-0.526	9,990	9,990
51	0.325	-0.229	-0.816	0.266	-0.392	0.364	0.335	-0.392	-0.392	9,990	9,990
52	0.024	-0.491	-0.491	0.021	0.328	-0.158	0.113	-0.158	-0.158	9,990	9,990
53	0.500	0.305	-0.151	-0.209	-0.019	-0.309	0.046	-0.309	-0.019	9,990	9,990
54	0.353	-0.545	0.588	-0.266	0.029	0.029	0.149	0.480	0.029	9,990	9,990
55	-0.266	-0.191	0.124	0.000	-0.104	-0.104	0.090	0.251	0.251	9,990	9,990
56	0.363	0.019	0.473	-0.077	0.602	-0.181	-0.443	0.149	0.149	9,990	9,990
57	-0.518	-0.707	-0.389	0.101	0.505	-0.206	-0.385	0.278	-0.206	9,990	9,990
58	-0.113	0.025	0.025	-0.415	0.206	-0.505	-0.535	-0.278	0.613	9,990	9,990

	157	158	159	160	161	162	163	164	165	166	167
59	-0.178	0.385	0.385	-0.146	0.528	-0.248	0.158	0.060	0.528	9.990	9.990
60	0.176	0.452	0.037	-0.418	-0.570	-0.146	-0.087	-0.146	-0.146	9.990	9.990
61	-0.178	-0.332	0.689	-0.146	0.528	-0.248	-0.158	0.820	0.060	9.990	9.990
62	-0.098	0.223	0.223	0.266	-0.392	0.364	0.335	0.092	-0.392	9.990	9.990
63	-0.288	-0.090	-0.090	0.369	0.220	0.461	-0.023	0.220	-0.266	9.990	9.990
64	0.176	0.037	-0.332	0.158	-0.146	0.332	-0.306	0.332	-0.718	9.990	9.990
65	0.237	0.649	0.098	-0.369	0.583	-0.526	-0.007	0.384	0.384	9.990	9.990
66	-0.317	0.000	-0.409	-0.189	-0.087	-0.087	-0.715	-0.087	-0.087	9.990	9.990
67	0.052	0.128	0.128	0.783	0.213	0.699	0.247	0.213	0.699	9.990	9.990
68	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
69	0.224	0.295	0.295	0.459	0.373	0.788	-0.071	0.373	0.373	9.990	9.990
70	-0.295	-0.158	-0.545	-0.539	0.480	0.029	-0.071	0.029	0.029	9.990	9.990
71	-0.019	-0.124	0.191	-0.409	-0.251	-0.251	-0.447	-0.682	0.104	9.990	9.990
72	-0.409	0.098	0.098	-0.369	0.384	-0.087	-0.227	0.503	0.384	9.990	9.990
73	-0.052	-0.128	-0.128	-0.309	-0.213	-0.699	-0.247	-0.213	-0.213	9.990	9.990
74	0.077	0.000	-0.409	-0.189	-0.512	-0.087	0.369	-0.512	-0.087	9.990	9.990
75	0.094	0.629	0.629	-0.213	0.526	-0.583	-0.830	0.087	0.087	9.990	9.990
76	0.237	-0.274	0.500	-0.369	-0.087	0.384	0.217	-0.087	0.384	9.990	9.990
77	-0.553	-0.623	-0.841	-0.309	-0.213	-0.213	-0.247	-0.213	-0.699	9.990	9.990
78	-0.176	-0.613	-0.037	0.418	0.146	0.570	0.306	-0.332	0.570	9.990	9.990
79	-0.046	-0.346	0.090	-0.041	0.266	-0.220	-0.223	-0.220	-0.220	9.990	9.990
80	-0.237	0.274	-0.500	-0.213	0.087	-0.384	-0.217	-0.384	-0.384	9.990	9.990
81	0.087	-0.473	-0.019	-0.317	-0.602	-0.149	0.443	-0.149	-0.602	9.990	9.990
82	0.266	0.191	-0.124	0.000	0.104	-0.251	-0.447	-0.251	-0.251	9.990	9.990
83	-0.237	-0.500	-0.098	-0.500	0.526	0.087	0.227	0.526	0.526	9.990	9.990
84	0.098	-0.443	0.229	0.087	-0.092	-0.364	-0.052	-0.092	-0.092	9.990	9.990
85	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990
86	0.149	-0.104	-0.104	0.087	0.369	-0.016	0.655	0.369	-0.016	9.990	9.990
87	0.464	0.332	-0.452	-0.459	0.146	-0.332	-0.369	-0.545	-0.545	9.990	9.990
88	-0.181	0.251	0.682	0.087	-0.016	-0.016	0.266	0.369	0.369	9.990	9.990
89	0.578	0.689	0.385	0.234	0.528	0.060	-0.521	0.060	0.060	9.990	9.990
90	-0.158	0.037	0.037	-0.418	-0.570	-0.570	-0.306	-0.146	-0.146	9.990	9.990
91	-0.237	0.274	-0.649	0.369	0.526	0.526	0.007	-0.384	-0.384	9.990	9.990
92	-0.403	-0.332	-0.332	0.234	0.060	-0.248	0.158	0.060	0.060	9.990	9.990
93	-0.098	0.443	0.223	0.266	0.092	0.092	-0.443	0.364	-0.392	9.990	9.990
94	-0.356	-0.780	-0.158	0.319	-0.328	0.415	0.409	0.158	0.158	9.990	9.990
95	0.586	0.098	-0.274	-0.369	0.384	-0.526	0.217	-0.526	-0.687	9.990	9.990
96	0.495	-0.025	0.401	0.415	-0.206	0.505	0.060	0.278	-0.206	9.990	9.990
97	-0.295	0.588	-0.545	0.577	-0.433	0.029	-0.071	-0.433	-0.433	9.990	9.990
98	-0.046	-0.346	0.090	-0.041	-0.220	-0.220	-0.223	-0.220	-0.220	9.990	9.990
99	-0.256	0.305	0.305	0.158	-0.309	-0.019	-0.585	-0.019	-0.019	9.990	9.990
100	-0.024	0.287	0.287	-0.021	0.158	0.158	-0.113	0.158	0.415	9.990	9.990
101	-0.426	0.223	0.223	-0.087	0.364	-0.392	-0.807	0.092	0.092	9.990	9.990
102	-0.542	-0.452	-0.037	-0.158	0.570	0.146	-0.140	0.146	0.146	9.990	9.990
103	-0.149	0.104	0.104	-0.512	0.016	0.016	-0.266	0.016	0.016	9.990	9.990
104	-0.094	-0.274	-0.274	-0.613	0.583	-0.526	-0.227	-0.087	-0.526	9.990	9.990
105	-0.179	-0.305	-0.625	0.209	0.019	0.019	-0.046	0.309	0.019	9.990	9.990
106	0.224	0.295	0.295	0.459	0.373	0.373	0.486	0.373	0.373	9.990	9.990
107	0.224	0.295	0.295	0.459	0.373	0.373	0.486	0.373	0.373	9.990	9.990
108	0.224	0.295	0.295	0.459	0.373	0.373	0.486	0.373	0.373	9.990	9.990
109	0.224	0.295	0.295	0.459	0.373	0.373	0.486	0.373	0.373	9.990	9.990
110	0.224	0.295	0.295	0.459	0.373	0.373	0.486	0.373	0.373	9.990	9.990
111	0.052	0.128	0.128	0.309	0.699	0.213	0.625	0.699	0.213	9.990	9.990
112	0.224	0.295	0.295	0.459	0.373	0.373	0.486	0.373	0.373	9.990	9.990
113	0.052	0.128	0.128	0.309	0.699	0.213	0.625	0.699	0.213	9.990	9.990
114	0.052	0.128	0.623	0.309	0.213	0.213	0.247	0.699	0.213	9.990	9.990
115	0.553	0.128	0.623	0.309	0.213	0.213	0.625	0.213	0.213	9.990	9.990
116	0.149	-0.104	0.251	0.087	-0.016	-0.016	0.266	-0.016	-0.016	9.990	9.990

	157	158	159	160	161	162	163	164	165	166	167
117	-0.077	0.000	0.000	0.189	0.087	0.087	-0.041	0.087	0.087	9.990	9.990
118	-0.178	0.385	-0.332	0.712	0.060	0.060	-0.158	0.060	-0.248	9.990	9.990
119	0.052	0.128	0.128	0.783	0.213	0.699	0.625	0.699	0.213	9.990	9.990
120	-0.178	0.385	-0.332	0.712	0.060	0.060	-0.158	0.060	-0.248	9.990	9.990
121	0.224	0.295	0.295	0.459	0.373	0.373	0.486	0.373	0.373	9.990	9.990
122	0.553	0.128	0.128	0.309	0.213	0.213	0.247	0.213	0.213	9.990	9.990
123	0.553	0.128	0.128	0.309	0.213	0.213	0.247	0.213	0.213	9.990	9.990
124	0.052	0.623	0.128	0.309	0.699	0.213	0.247	0.213	0.213	9.990	9.990
125	-0.077	0.000	0.000	0.189	0.087	0.087	0.516	0.087	0.087	9.990	9.990
126	0.052	0.623	0.128	0.309	0.699	0.213	0.247	0.213	0.213	9.990	9.990
127	0.224	0.295	0.295	0.459	0.373	0.373	0.486	0.373	0.373	9.990	9.990
128	0.224	0.295	0.295	0.459	0.373	0.373	0.486	0.373	0.373	9.990	9.990
129	0.052	0.623	0.128	0.309	0.213	0.213	0.247	0.213	0.213	9.990	9.990
130	-0.077	0.000	0.000	0.189	0.087	0.512	0.516	0.087	0.512	9.990	9.990
131	0.052	0.128	0.128	0.309	0.213	0.213	0.247	0.213	0.213	9.990	9.990
132	0.224	0.295	0.295	0.459	0.373	0.373	0.486	0.373	0.373	9.990	9.990
133	0.224	0.295	0.295	0.459	0.373	0.373	0.486	0.373	0.373	9.990	9.990
134	-0.077	0.000	0.000	0.189	0.087	0.087	-0.041	0.087	0.087	9.990	9.990
135	0.224	0.295	0.295	0.459	0.373	0.373	0.486	0.373	0.373	9.990	9.990
136	0.224	0.295	0.295	0.459	0.373	0.373	0.486	0.373	0.373	9.990	9.990
137	0.149	-0.104	0.251	0.087	0.369	-0.016	-0.220	0.369	0.369	9.990	9.990
138	-0.339	-0.266	0.019	0.317	0.602	0.602	0.288	0.862	0.149	9.990	9.990
139	0.052	0.623	0.623	0.309	0.213	0.213	-0.246	0.213	0.699	9.990	9.990
140	-0.387	-0.287	0.158	0.565	-0.415	0.806	0.113	0.328	-0.158	9.990	9.990
141	0.553	0.623	0.128	0.309	0.213	0.699	0.247	0.213	0.699	9.990	9.990
142	0.024	0.505	-0.287	-0.319	0.328	-0.158	-0.409	0.328	-0.415	9.990	9.990
143	-0.325	-0.443	-0.223	0.087	-0.092	0.392	0.443	0.738	0.392	9.990	9.990
144	0.363	0.019	-0.266	-0.077	0.149	-0.181	-0.046	0.149	0.149	9.990	9.990
145	-0.077	0.409	0.409	0.189	0.512	0.087	-0.041	0.870	0.087	9.990	9.990
146	0.052	0.128	0.128	0.783	0.213	0.213	-0.246	0.213	0.213	9.990	9.990
147	0.019	0.124	0.124	0.000	0.251	-0.104	0.744	0.251	-0.104	9.990	9.990
148	0.363	0.019	0.019	0.317	-0.181	0.602	-0.046	-0.181	0.149	9.990	9.990
149	0.363	0.019	0.473	-0.077	0.149	-0.181	-0.046	0.149	0.149	9.990	9.990
150	0.149	-0.104	0.682	0.087	0.369	-0.016	-0.220	0.369	0.369	9.990	9.990
151	0.019	-0.191	0.571	0.409	-0.104	0.251	0.090	0.251	-0.104	9.990	9.990
152	0.149	-0.104	0.251	0.087	-0.016	-0.016	-0.220	-0.016	-0.016	9.990	9.990
153	0.179	0.625	-0.151	-0.209	-0.309	-0.019	-0.253	-0.309	0.459	9.990	9.990
154	0.266	-0.071	-0.071	0.234	0.528	-0.248	-0.158	0.528	0.060	9.990	9.990
155	0.796	0.689	-0.332	0.234	0.060	0.060	0.158	0.528	-0.248	9.990	9.990
156	0.019	0.124	0.124	0.000	0.682	0.251	0.447	0.682	0.682	9.990	9.990
157	1.000	0.473	0.473	-0.077	-0.181	-0.181	0.208	-0.181	-0.181	9.990	9.990
158	0.473	1.000	0.124	0.000	0.251	-0.104	-0.535	-0.104	0.251	9.990	9.990
159	0.473	0.124	1.000	0.000	0.251	-0.104	0.090	0.682	0.682	9.990	9.990
160	-0.077	0.000	0.000	1.000	0.087	0.870	-0.041	0.512	0.087	9.990	9.990
161	-0.181	0.251	0.251	0.087	1.000	-0.016	-0.220	0.770	0.369	9.990	9.990
162	-0.181	-0.104	-0.104	0.870	-0.016	1.000	0.266	0.369	0.369	9.990	9.990
163	0.288	-0.535	0.090	-0.041	-0.220	0.266	1.000	0.266	0.266	9.990	9.990
164	-0.181	-0.104	0.682	0.512	0.770	0.369	0.266	1.000	0.369	9.990	9.990
165	-0.181	0.251	0.682	0.087	0.369	0.369	0.266	0.369	1.000	9.990	9.990
166	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	1.000	9.990
167	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	9.990	1.000

APPENDIX B

Biserial Correlation Matrix

Variable

#1 -- Student's Age

#2 -- Student's Raw Score I.Q.

#3 -- Student's Raw Score Space Relations

#4 -- Student's Raw Score Mechanical Reasoning

BISERIAL CORRELATIONS

	1	2	3	4	5	6	7	8	9	10	11	12	13
1	-0.133	0.523	-0.079	-0.167	0.144	0.679	-0.002	-0.012	0.043	0.041	-0.010	0.100	0.030
2	-0.030	0.566	0.014	-0.071	0.155	0.721	-0.004	-0.019	0.064	0.107	0.030	0.225	0.099
3	0.001	0.676	0.022	-0.002	0.210	0.542	-0.015	-0.062	0.059	0.075	0.013	0.113	0.047
4	-0.117	0.456	-0.048	0.231	0.599	1.093	-0.007	-0.024	0.067	0.083	0.001	0.206	0.098

	14	15	16	17	18	19	20	21	22	23	24	25	26
1	0.173	0.157	0.151	0.151	-0.013	-0.010	0.106	-0.076	0.203	-0.041	-0.031	9.999	-0.008
2	0.060	0.159	0.132	-0.044	0.016	0.020	0.135	0.015	0.205	-0.023	-0.005	9.999	-0.011
3	-0.013	0.098	0.054	-0.093	-0.001	0.030	0.115	0.020	0.354	-0.014	-0.014	9.999	-0.035
4	0.100	0.166	0.137	0.052	0.018	0.001	0.339	0.024	0.405	-0.042	0.001	9.999	-0.010

	27	28	29	30	31	32	33	34	35	36	37	38	39
1	-0.009	-0.133	-0.013	-0.111	-0.124	0.116	9.999	3.033	-0.005	-0.007	9.999	0.011	-0.010
2	0.475	0.019	-0.022	0.047	-0.190	0.015	9.999	13.543	0.010	-0.005	9.999	0.207	-0.002
3	0.295	-0.162	-0.048	-0.056	-0.144	0.087	9.999	1.655	0.011	-0.018	9.999	0.329	0.014
4	-0.210	-0.020	-0.005	-0.043	0.091	0.126	9.999	-7.513	0.017	0.014	9.999	-0.395	-0.006

	40	41	42	43	44	45	46	47	48	49	50	51	52
1	0.109	-0.013	-0.067	-0.058	-0.058	-0.058	-0.058	-0.047	-0.449	-0.389	-0.517	-0.102	-0.192
2	0.367	-0.034	-0.027	-0.016	-0.016	-0.016	-0.016	-0.003	0.286	-0.097	-0.486	0.172	-0.031
3	0.269	-0.055	-0.000	0.060	0.060	0.060	0.060	0.063	-0.759	-0.200	-0.185	0.113	-0.038
4	0.181	-0.027	-0.047	-0.012	-0.012	-0.012	-0.012	-0.020	-0.737	0.018	0.218	-0.605	-0.002

	53	54	55	56	57	58	59	60	61	62	63	64	65
1	-0.095	-0.138	-0.020	0.031	0.543	0.160	0.044	0.161	0.134	-0.864	0.033	0.191	0.104
2	-0.073	-0.196	-0.033	0.036	1.011	0.211	0.008	-0.317	0.091	-1.428	0.060	-0.014	0.119
3	0.024	-0.059	0.000	0.070	0.724	0.263	0.082	0.132	-0.031	-1.300	-0.052	-0.344	0.500
4	-0.051	0.031	-0.055	0.025	0.336	0.250	0.068	-0.038	-0.035	-0.247	0.055	0.224	0.207

	66	67	68	69	70	71	72	73	74	75	76	77	78
1	2.435	-0.012	9.999	-0.005	-0.123	0.915	0.170	2.579	2.109	0.135	-0.265	3.327	0.091
2	4.029	-0.023	9.999	0.010	0.057	0.590	0.210	4.860	0.491	0.185	-0.010	7.902	0.170
3	6.391	-0.036	9.999	0.011	0.000	0.887	0.100	2.009	1.097	0.337	0.052	6.191	0.173
4	3.700	-0.004	9.999	0.017	-0.012	0.888	0.298	1.028	6.756	0.044	-0.476	0.907	-0.017

	79	80	81	82	83	84	85	86	87	88	89	90	91
1	-0.166	-0.203	-0.905	1.192	0.153	0.015	9.999	-0.021	-0.231	-0.037	0.147	-0.245	-0.057
2	-0.098	0.036	-0.383	2.113	0.193	0.134	9.999	-0.082	0.103	-0.085	0.006	0.004	-0.113
3	-0.118	0.118	-1.402	0.694	-0.022	0.094	9.999	-0.098	0.139	-0.017	-0.048	0.550	-0.369
4	0.016	-0.202	-2.013	0.291	0.165	0.022	9.999	-0.045	0.031	-0.017	0.057	-0.008	0.010

BISERIAL CORRELATIONS

	92	93	94	95	96	97	98	99	100	101	102	103	104
Age 1	-0.069	0.729	-0.829	-0.199	0.569	-0.073	-0.154	0.040	0.728	0.702	0.193	0.729	-0.231
IQ 2	0.004	0.802	-0.409	-0.152	0.711	0.099	-0.007	0.619	0.197	1.001	0.257	1.930	0.186
SR 3	0.026	0.632	-0.203	-0.442	-0.261	0.355	0.035	0.069	0.276	1.578	0.035	1.910	-0.002
MR 4	-0.124	0.554	-0.719	-0.236	-0.227	0.257	-0.046	-0.017	0.735	0.382	0.261	-0.201	-0.568

	105	106	107	108	109	110	111	112	113	114	115	116	117
1	1.030	-0.010	-0.010	-0.010	-0.010	-0.010	-0.013	-0.010	-0.013	-0.015	-0.019	-0.039	-0.027
2	0.267	-0.002	-0.002	-0.002	-0.002	-0.002	-0.019	-0.002	-0.019	-0.022	-0.001	0.012	0.009
3	-0.541	0.014	0.014	0.014	0.014	0.014	-0.014	0.014	-0.014	0.006	0.051	0.077	0.052
4	1.118	-0.006	-0.006	-0.006	-0.006	-0.006	-0.012	-0.006	-0.012	-0.019	-0.019	-0.029	-0.009

	118	119	120	121	122	123	124	125	126	127	128	129	130
1	-0.066	-0.020	-0.066	-0.010	-0.017	-0.017	-0.016	-0.026	-0.016	-0.010	-0.010	-0.016	-0.028
2	0.028	-0.013	0.028	-0.002	-0.005	-0.005	0.006	0.028	0.006	-0.002	-0.002	-0.020	-0.014
3	0.079	0.015	0.079	0.014	0.016	0.016	0.028	0.052	0.028	0.014	0.014	0.015	0.035
4	0.041	0.008	0.041	-0.006	-0.015	-0.015	0.007	-0.052	0.007	-0.006	-0.006	0.003	0.023

	131	132	133	134	135	136	137	138	139	140	141	142	143
1	-0.017	-0.010	-0.010	-0.023	-0.010	-0.010	0.043	-0.058	-0.010	0.002	-0.012	-0.086	-0.160
2	0.013	-0.002	-0.002	0.022	-0.002	-0.002	0.031	-0.112	-0.031	0.029	-0.029	-0.113	-0.170
3	0.031	0.014	0.014	0.045	0.014	0.014	0.069	-0.162	0.069	-0.046	-0.043	-0.116	-0.134
4	-0.016	-0.006	-0.006	-0.001	-0.006	-0.006	0.034	-0.001	0.018	-0.002	-0.022	-0.036	-0.039

	144	145	146	147	148	149	150	151	152	153	154	155	156
1	0.056	-0.010	-0.006	-0.030	0.035	0.048	0.115	0.040	0.033	-0.084	0.065	-0.049	0.052
2	-0.016	-0.061	-0.004	-0.064	-0.006	0.038	0.069	-0.036	0.034	-0.127	0.043	-0.108	-0.001
3	-0.007	-0.051	0.023	-0.084	-0.105	0.014	0.023	0.063	-0.025	0.060	-0.016	-0.091	-0.071
4	0.053	-0.009	0.014	-0.050	-0.021	-0.003	0.050	-0.025	-0.058	0.024	0.055	-0.007	0.046

	157	158	159	160	161	162	163	164	165	166	167
1	-0.049	-0.028	-0.040	0.049	-0.050	0.039	-0.198	-0.052	0.042	9.999	9.999
2	-0.046	-0.077	-0.022	0.023	0.037	0.036	-0.277	-0.008	-0.023	9.999	9.999
3	-0.072	0.007	-0.007	0.011	-0.010	-0.033	-0.349	-0.030	-0.007	9.999	9.999
4	-0.080	0.022	0.010	0.033	0.065	0.037	-0.159	0.041	0.052	9.999	9.999

	92	93	94	95	96	97	98	99	100	101	102	103	104
1	7.000	22.000	21.000	17.000	19.000	15.000	11.000	8.000	21.000	22.000	13.000	27.000	17.000
2	7.000	22.000	21.000	17.000	19.000	15.000	11.000	8.000	21.000	22.000	13.000	27.000	17.000
3	7.000	22.000	21.000	17.000	19.000	15.000	11.000	8.000	21.000	22.000	13.000	27.000	17.000
4	7.000	22.000	21.000	17.000	19.000	15.000	11.000	8.000	21.000	22.000	13.000	27.000	17.000

	105	106	107	108	109	110	111	112	113	114	115	116	117
1	23.000	1.000	1.000	1.000	1.000	1.000	2.000	1.000	2.000	2.000	2.000	4.000	3.000
2	23.000	1.000	1.000	1.000	1.000	1.000	2.000	1.000	2.000	2.000	2.000	4.000	3.000
3	23.000	1.000	1.000	1.000	1.000	1.000	2.000	1.000	2.000	2.000	2.000	4.000	3.000
4	23.000	1.000	1.000	1.000	1.000	1.000	2.000	1.000	2.000	2.000	2.000	4.000	3.000

	118	119	120	121	122	123	124	125	126	127	128	129	130
1	7.000	2.000	7.000	1.000	2.000	2.000	2.000	3.000	2.000	1.000	1.000	2.000	3.000
2	7.000	2.000	7.000	1.000	2.000	2.000	2.000	3.000	2.000	1.000	1.000	2.000	3.000
3	7.000	2.000	7.000	1.000	2.000	2.000	2.000	3.000	2.000	1.000	1.000	2.000	3.000
4	7.000	2.000	7.000	1.000	2.000	2.000	2.000	3.000	2.000	1.000	1.000	2.000	3.000

	131	132	133	134	135	136	137	138	139	140	141	142	143
1	2.000	1.000	1.000	3.000	1.000	1.000	4.000	6.000	2.000	10.000	2.000	10.000	9.000
2	2.000	1.000	1.000	3.000	1.000	1.000	4.000	6.000	2.000	10.000	2.000	10.000	9.000
3	2.000	1.000	1.000	3.000	1.000	1.000	4.000	6.000	2.000	10.000	2.000	10.000	9.000
4	2.000	1.000	1.000	3.000	1.000	1.000	4.000	6.000	2.000	10.000	2.000	10.000	9.000

	144	145	146	147	148	149	150	151	152	153	154	155	156
1	6.000	3.000	2.000	5.000	6.000	6.000	4.000	5.000	4.000	8.000	7.000	7.000	5.000
2	6.000	3.000	2.000	5.000	6.000	6.000	4.000	5.000	4.000	8.000	7.000	7.000	5.000
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4	6.000	3.000	2.000	5.000	6.000	6.000	4.000	5.000	4.000	8.000	7.000	7.000	5.000

	157	158	159	160	161	162	163	164	165	166	167
1	6.000	5.000	5.000	3.000	4.000	4.000	11.000	4.000	4.000	0.000	0.000
2	6.000	5.000	5.000	3.000	4.000	4.000	11.000	4.000	4.000	0.000	0.000
3	6.000	5.000	5.000	3.000	4.000	4.000	11.000	4.000	4.000	0.000	0.000
4	6.000	5.000	5.000	3.000	4.000	4.000	11.000	4.000	4.000	0.000	0.000

DIVISION POINT - COUNT

	1	2	3	4	5	6	7	8	9	10	11	12	13
1	9.000	20.000	7.000	17.000	17.000	20.000	1.000	2.000	7.000	8.000	2.000	9.000	7.000
2	9.000	20.000	7.000	17.000	17.000	20.000	1.000	2.000	7.000	8.000	2.000	9.000	7.000
3	9.000	20.000	7.000	17.000	17.000	20.000	1.000	2.000	7.000	8.000	2.000	9.000	7.000
4	9.000	20.000	7.000	17.000	17.000	20.000	1.000	2.000	7.000	8.000	2.000	9.000	7.000

	14	15	16	17	18	19	20	21	22	23	24	25	26
1	12.000	7.000	6.000	9.000	3.000	2.000	11.000	8.000	16.000	5.000	3.000	0.000	1.000
2	12.000	7.000	6.000	9.000	3.000	2.000	11.000	8.000	16.000	5.000	3.000	0.000	1.000
3	12.000	7.000	6.000	9.000	3.000	2.000	11.000	8.000	16.000	5.000	3.000	0.000	1.000
4	12.000	7.000	6.000	9.000	3.000	2.000	11.000	8.000	16.000	5.000	3.000	0.000	1.000

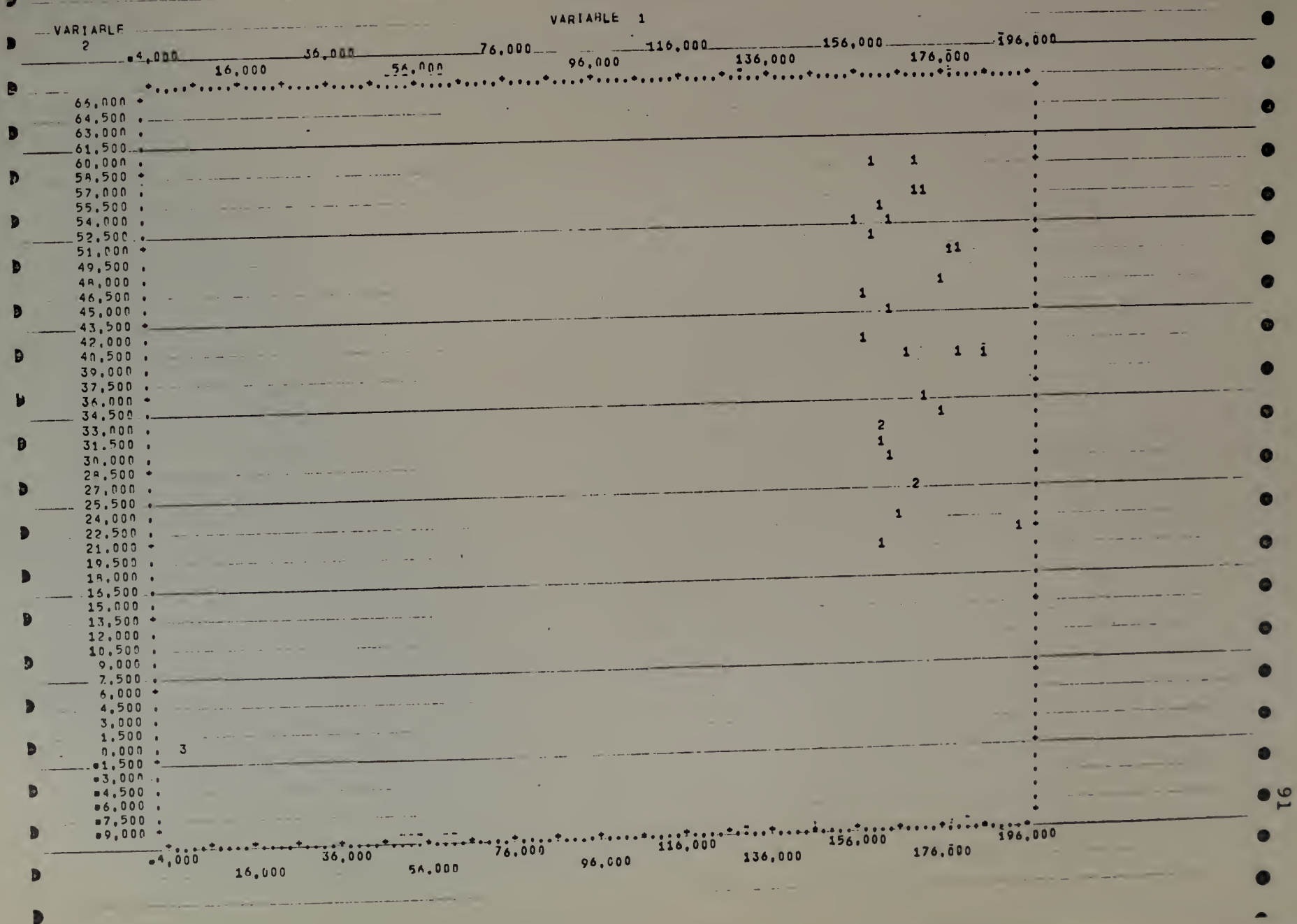
	27	28	29	30	31	32	33	34	35	36	37	38	39
1	19.000	10.000	2.000	8.000	10.000	16.000	0.000	30.000	1.000	2.000	0.000	20.000	1.000
2	19.000	10.000	2.000	8.000	10.000	16.000	0.000	30.000	1.000	2.000	0.000	20.000	1.000
3	19.000	10.000	2.000	8.000	10.000	16.000	0.000	30.000	1.000	2.000	0.000	20.000	1.000
4	19.000	10.000	2.000	8.000	10.000	16.000	0.000	30.000	1.000	2.000	0.000	20.000	1.000

	40	41	42	43	44	45	46	47	48	49	50	51	52
1	14.000	2.000	6.000	6.000	6.000	6.000	6.000	5.000	24.000	24.000	17.000	22.000	10.000
2	14.000	2.000	6.000	6.000	6.000	6.000	6.000	5.000	24.000	24.000	17.000	22.000	10.000
3	14.000	2.000	6.000	6.000	6.000	6.000	6.000	5.000	24.000	24.000	17.000	22.000	10.000
4	14.000	2.000	6.000	6.000	6.000	6.000	6.000	5.000	24.000	24.000	17.000	22.000	10.000

	53	54	55	56	57	58	59	60	61	62	63	64	65
1	8.000	15.000	5.000	6.000	19.000	12.000	7.000	18.000	7.000	22.000	20.000	18.000	17.000
2	8.000	15.000	5.000	6.000	19.000	12.000	7.000	18.000	7.000	22.000	20.000	18.000	17.000
3	8.000	15.000	5.000	6.000	19.000	12.000	7.000	18.000	7.000	22.000	20.000	18.000	17.000
4	8.000	15.000	5.000	6.000	19.000	12.000	7.000	18.000	7.000	22.000	20.000	18.000	17.000

	66	67	68	69	70	71	72	73	74	75	76	77	78
1	28.000	2.000	0.000	1.000	15.000	26.000	17.000	29.000	28.000	14.000	17.000	29.000	13.000
2	28.000	2.000	0.000	1.000	15.000	26.000	17.000	29.000	28.000	14.000	17.000	29.000	13.000
3	28.000	2.000	0.000	1.000	15.000	26.000	17.000	29.000	28.000	14.000	17.000	29.000	13.000
4	28.000	2.000	0.000	1.000	15.000	26.000	17.000	29.000	28.000	14.000	17.000	29.000	13.000

	79	80	81	82	83	84	85	86	87	88	89	90	91
1	11.000	14.000	25.000	26.000	14.000	9.000	0.000	4.000	13.000	4.000	7.000	18.000	14.000
2	11.000	14.000	25.000	26.000	14.000	9.000	0.000	4.000	13.000	4.000	7.000	18.000	14.000
3	11.000	14.000	25.000	26.000	14.000	9.000	0.000	4.000	13.000	4.000	7.000	18.000	14.000
4	11.000	14.000	25.000	26.000	14.000	9.000	0.000	4.000	13.000	4.000	7.000	18.000	14.000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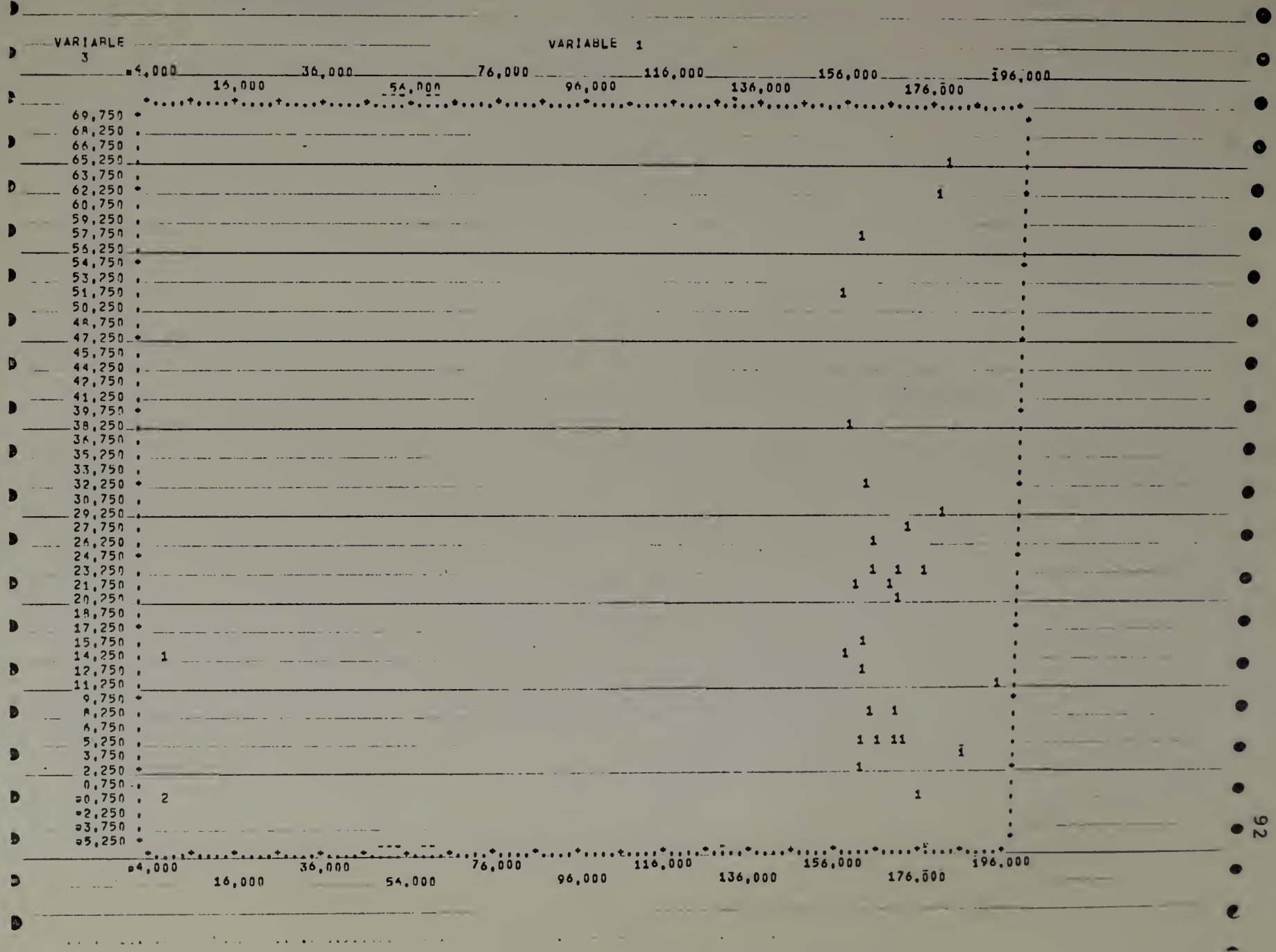
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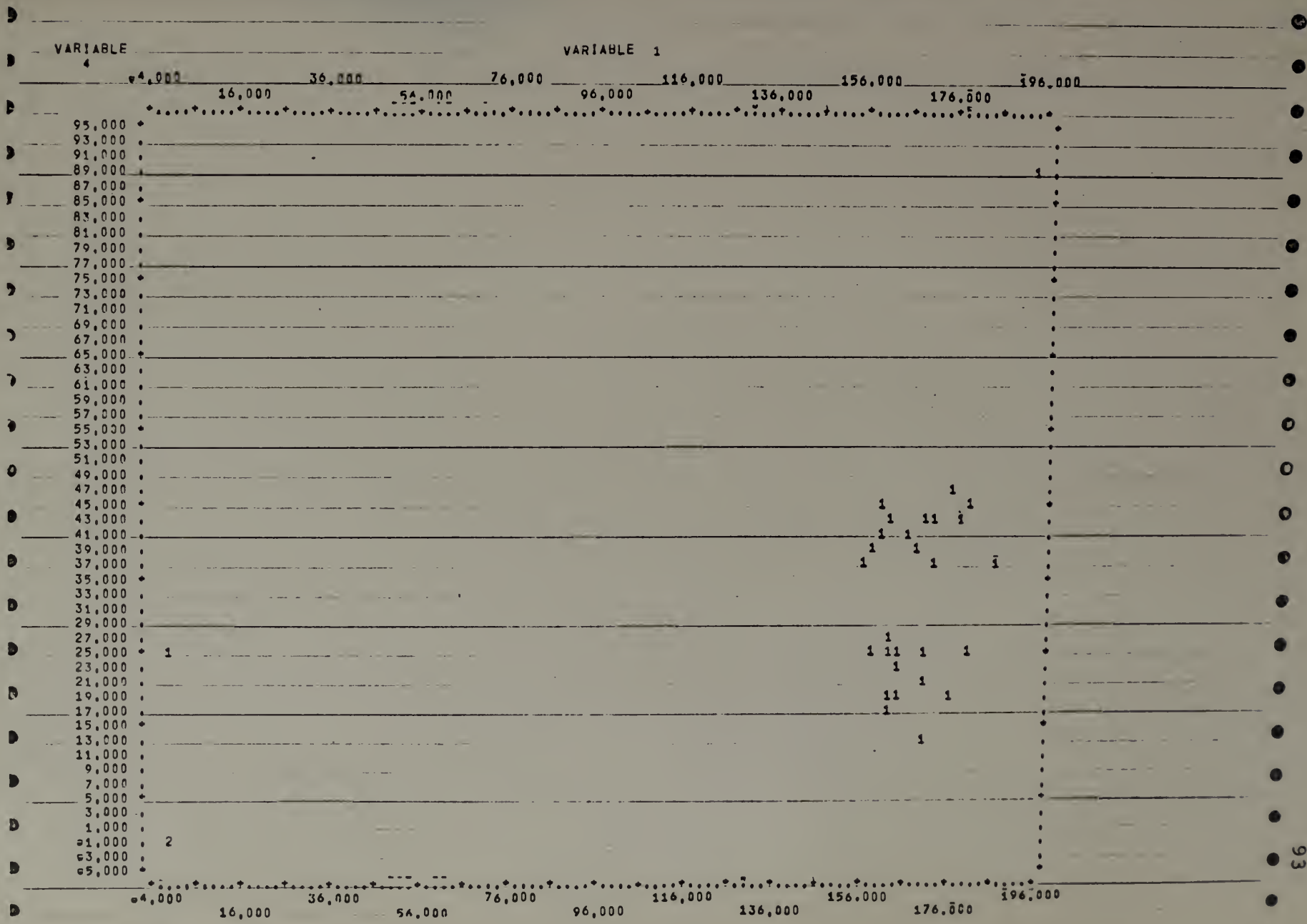
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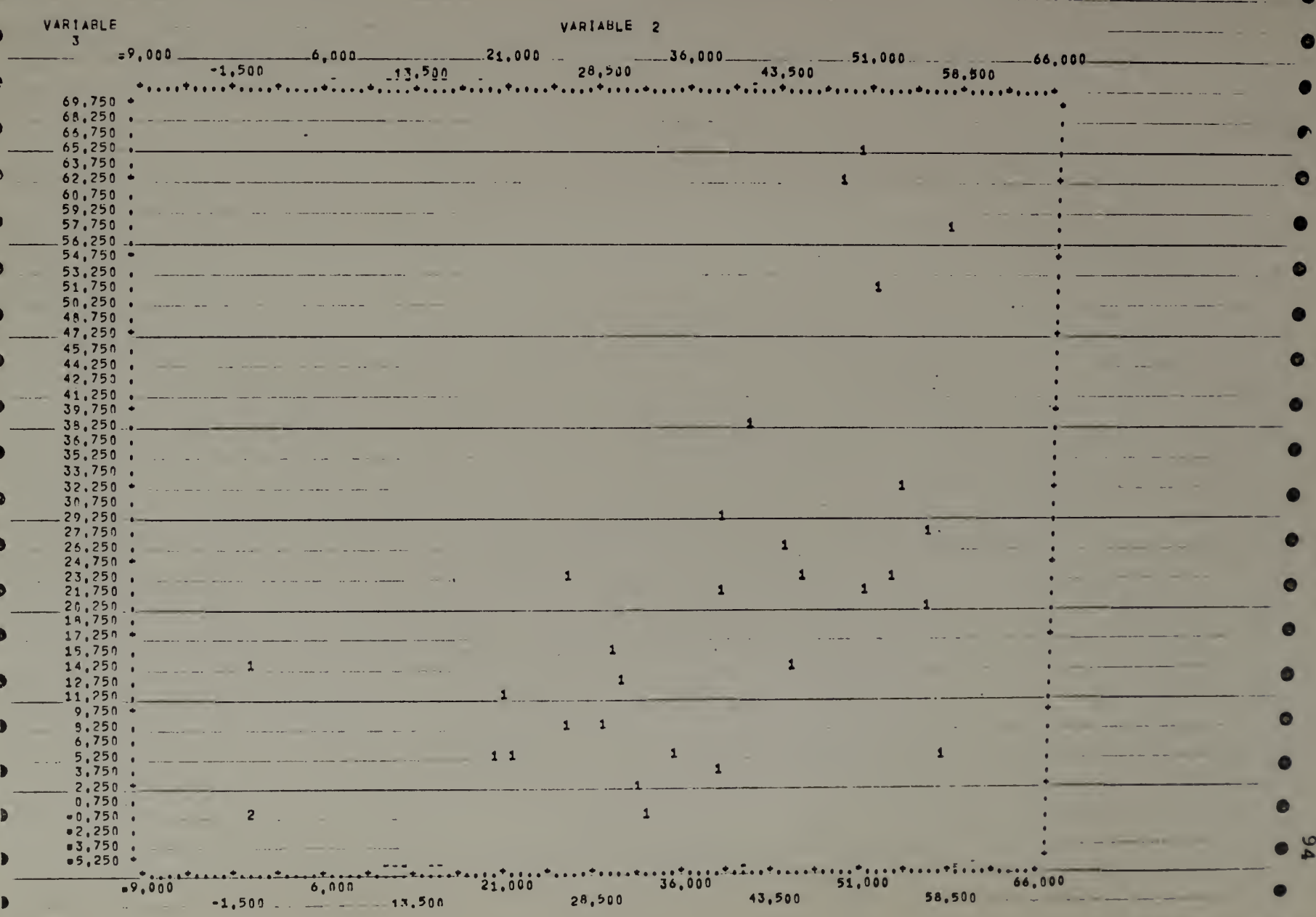
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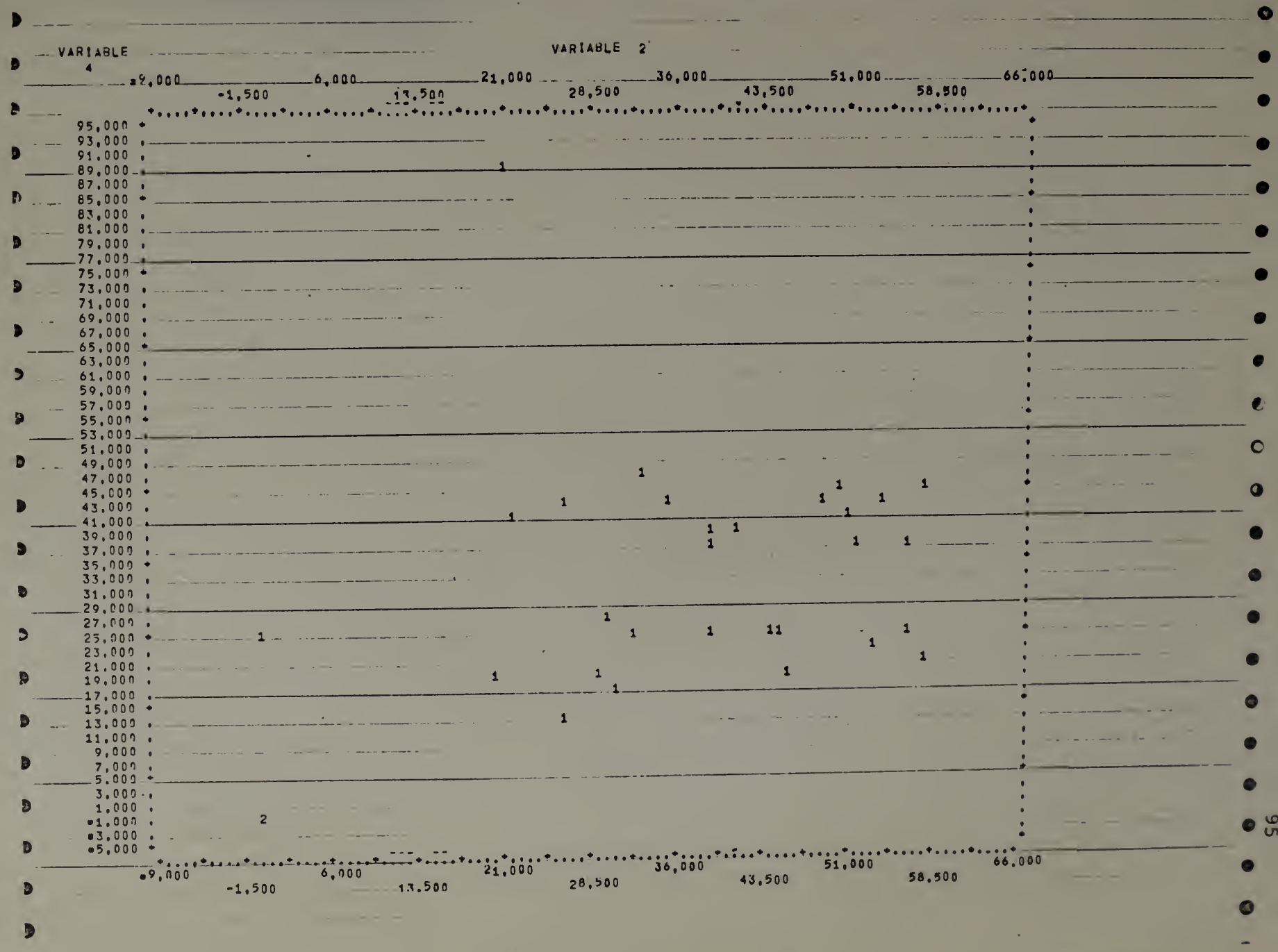
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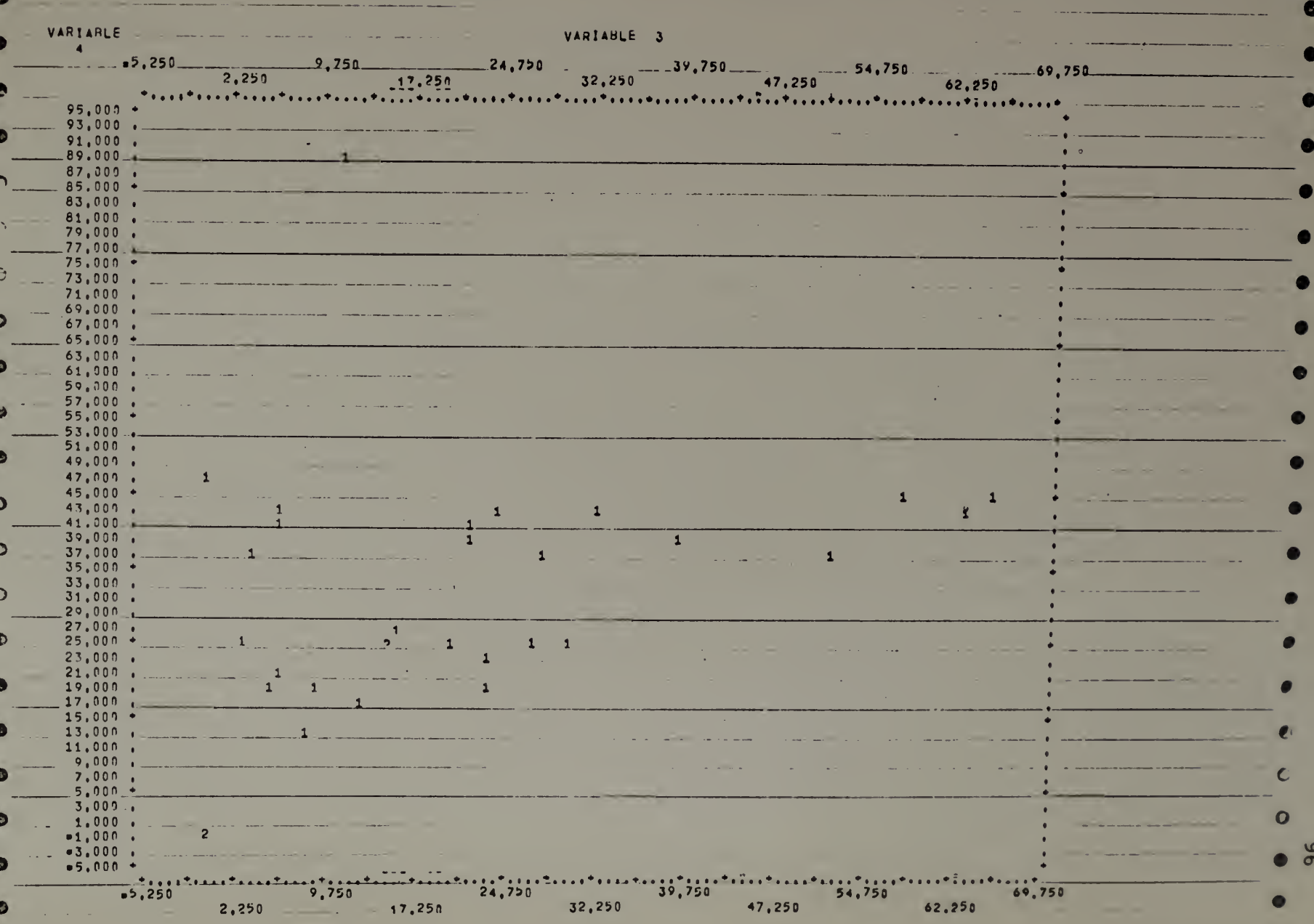
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APPENDIX C

Variable Frequency Count

VARIABLE		RESPONSE	FREQUENCY
1	QUESTION #1	0	9
1		1	22
2	2	0	20
2		1	11
3	3	0	7
3		1	24
4	4	0	17
4		1	14
5	5	0	17
5		1	14
6	6	0	20
6		1	11
7	QUESTION #1	0	1
7		1	30
8	2	0	2
8		1	29
9	3	0	7
9		1	24
10	4	0	8
10		1	23
11	5	0	2
11		1	29
12	6	0	9
12		1	22
13	7	0	7
13		1	24
14	QUESTION #1	0	12
14		1	19
15	2	0	7
15		1	24
16	3	0	6
16		1	25
17	4	0	9
17		1	22
18	5	0	3
18		1	28
19	6	0	2
19		1	29
20	7	0	11
20		1	20
21	8	0	8
21		1	23
22	9	0	16
22		1	15
23	QUESTION #1	0	5
23		1	26
24	2	0	3
24		1	28
25	3	1	31
26		0	1
26	4	1	30
27		0	19
27	5	1	12
28		0	10
28	6	1	21
29		0	2
29	QUESTION #1	1	29
30		0	8
30	2	1	23
31		0	10
31	3	1	21
32		0	16
32	4	1	15
33		1	31

0 = Wrong

1 = Right

PICTORIAL DIAGRAM OF LATHE TOOL BIT

VERBAL MATCHING PROBLEM OF THREAD PARTS

PICTORIAL THREAD IDENTIFICATION OF PARTS

DRAWING OF CROSS-SECTION VIEWS OF THREADS

PICTORIAL LATHE I.D.

34	5	0	30		
34		1	1		
35	6	0	1		
35		1	30		
36	7	0	2		
36		1	29		
37	8	1	31		
38		0	20		
38	9	1	11	PICTORIAL LATHE I.D.	
39		0	1		
39	10	1	30		
40		0	14		
40	11	1	17		
41		0	2		
41	12	1	29		
42		0	6		
42	13	1	25		
43	QUESTION #1	0	6		
43		1	25		
44	2	0	6		
44		1	25		
45	3	0	6	PICTORIAL CALIPERS I.D.	
45		1	25		
46	4	0	6		
46		1	25		
47	5	0	5		
47		1	26		
48	6	0	24		
48		1	7		
49	QUESTION #1	0	24		
49		1	7		
50	2	0	17		
50		1	14		
51	3	0	22		
51		1	9		
52	4	0	10		
52		1	21		
53	5	0	8		
53		1	23	MULTIPLE CHOICE QUESTIONS	
54	6	0	15		
54		1	16		
55	7	0	5		
55		1	26		
56	8	0	6		
56		1	25		
57	9	0	19		
57		1	12		
58	10	0	12		
58		1	19		
59	11	0	7		
59		1	24		
60	12	0	18		
60		1	13		
61	13	0	7		
61		1	24		
62	14	0	22		
62		1	9	MULTIPLE CHOICE QUESTIONS	
63	15	0	20		
63		1	11		
64	16	0	18		
64		1	13		
65	17	0	17		
65		1	14		
66	18	0	28		
66		1	3		
67	19	0	2		

67		1
68	20	1
69		0
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70		0
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71		0
71	23	1
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90		1
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91		1
92	43	0
92		1
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96	47	0
96		1
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97		1
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98		1
99	50	0
99		1
100	51	0
100		1
101	52	0

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16	
26	
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2	
28	
3	
14	
17	
17	
14	
29	MULTIPLE CHOICE QUESTIONS
2	
13	
18	
11	
20	
14	
17	
25	
6	
26	
5	
14	
17	
9	
22	
31	
4	
27	
13	
18	
4	
27	
7	
24	
18	MULTIPLE CHOICE QUESTIONS
13	
14	
17	
7	
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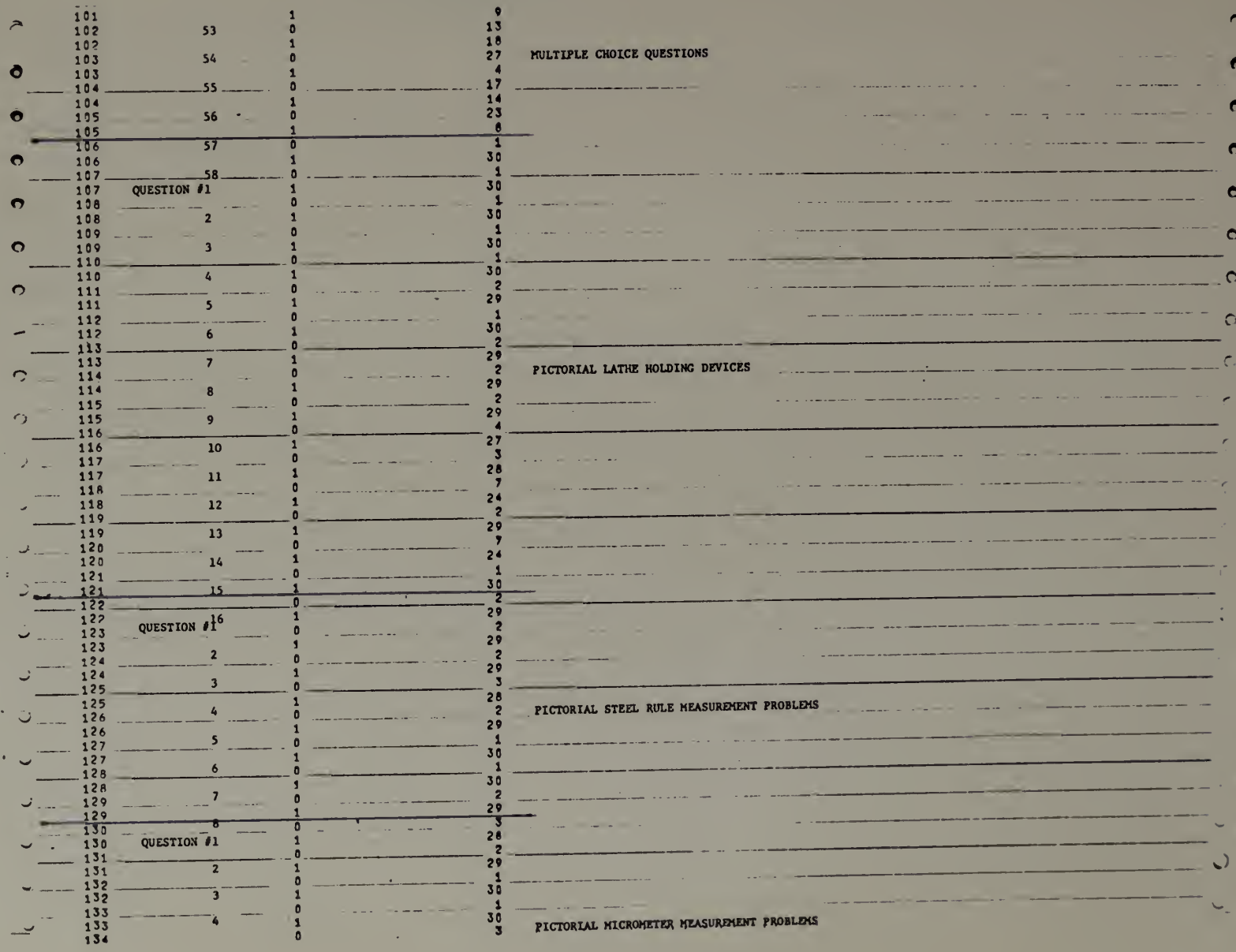

MULTIPLE CHOICE QUESTIONS
PICTORIAL LATHE HOLDING DEVICES
PICTORIAL STEEL RULE MEASUREMENT PROBLEMS
PICTORIAL MICROMETER MEASUREMENT PROBLEMS
QUESTION #1
QUESTION #1
QUESTION #1

VARIABLE	CUTOFF	VALUE	FREQUENCY	
134		1	28	
135	5	0	1	
135		1	30	
136	6	0	1	
136		1	30	
137	7	0	4	
137		1	27	
138	8	0	6	
138		1	25	
139	QUESTION #1	0	2	
139		1	29	
140	2	0	10	
140		1	21	
141	3	0	2	
141		1	29	
142	4	0	10	
142		1	21	
143	5	0	9	
143		1	22	
144	6	0	6	PERFORMANCE TEST
144		1	25	
145	7	0	3	
145		1	28	
146	8	0	2	
146		1	29	
147	9	0	5	
147		1	26	
148	10	0	6	
148		1	25	
149	11	0	6	
149		1	25	
150	12	0	4	
150		1	27	
151	13	0	5	
151		1	26	
152	14	0	4	
152		1	27	
153	15	0	8	
153		1	23	
154	16	0	7	
154		1	24	
155	17	0	7	
155		1	24	
156	18	0	5	
156		1	26	
157	19	0	6	
157		1	25	
158	20	0	5	PERFORMANCE TEST
158		1	26	
159	21	0	5	
159		1	26	
160	22	0	3	
160		1	28	
161	23	0	4	
161		1	27	
162	24	0	4	
162		1	27	
163	25	0	11	
163		1	20	
164	26	0	4	
164		1	27	
165	27	0	4	
165		1	27	
166	28	1	31	
167		1	31	

APPENDIX D

Theoretical Test

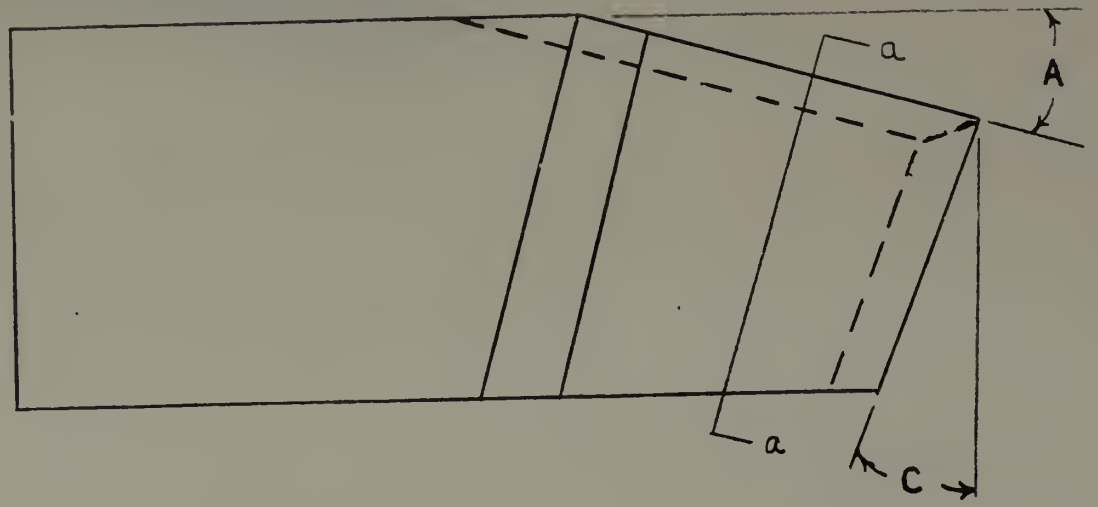
NAME_____ DATE_____

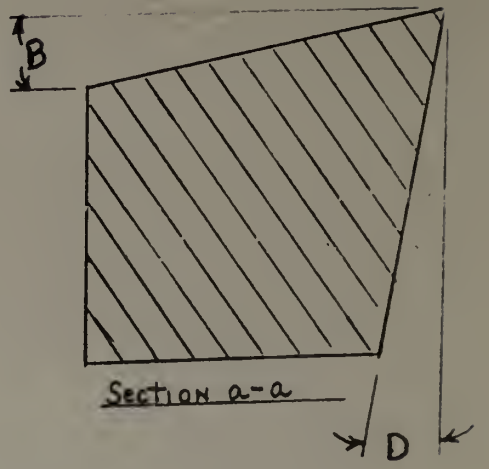
To produce the piece as indicated on the attached blue print one must proceed through a variety of steps. So that it can be determined approximately how long it would take on a production basis and to identify the critical operations, you are asked to mark the time spent on performing the operations to complete a specific task. This time breakdown will help to estimate the average time it should take to complete each task.

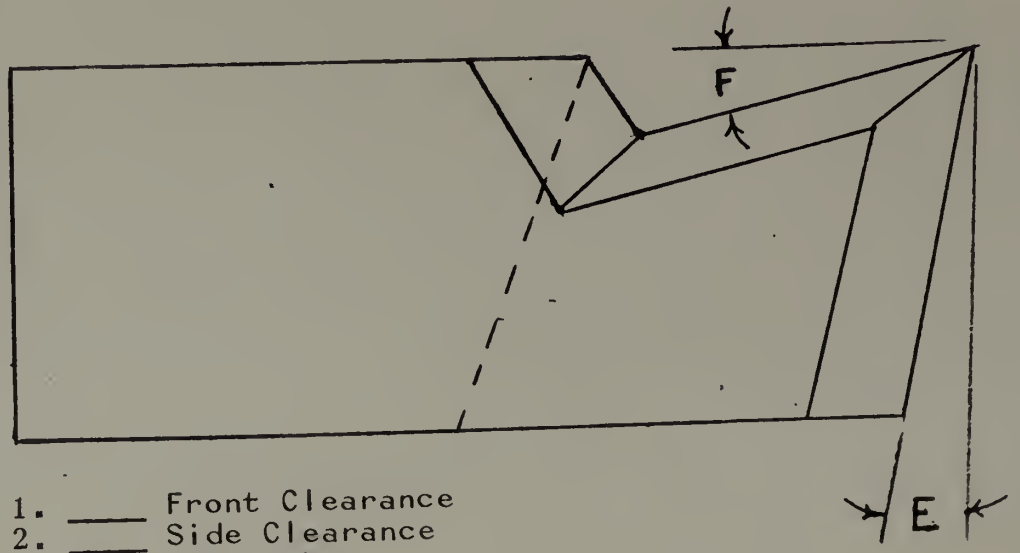
This time has no reflection on your grade; but will help in future planning of shop instruction and production jobs.

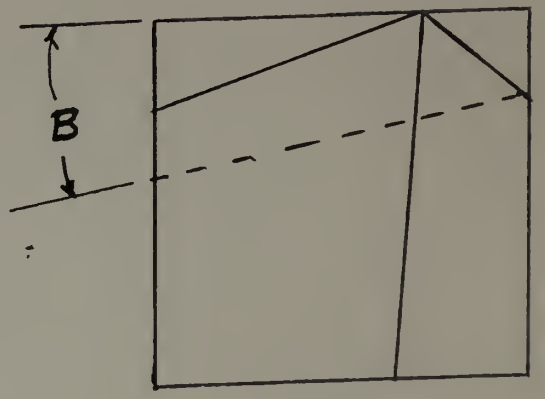
Time operation was;

	STARTED	FINISHED	
xample)	9:15	10:06	Measure and cutting off stock to proper length
	_____	_____	Face off to length and center drill both ends
	_____	_____	Rough turn to largest diameter
	_____	_____	Layout for the various diameters
	_____	_____	Straight turn all diameters to indicated dimensions
	_____	_____	Perform necking operations
	_____	_____	Taper turn
	_____	_____	Chamfer for threads
	_____	_____	Cut 1 1/4-12 thread
	_____	_____	Cut 3/4-16 thread
	_____	_____	Break all sharp corners
	_____	_____	Lay out for position of tap drill
	_____	_____	Drill hole to tap drill size
	_____	_____	Cut 1/4 - 20 thread with tap









1. ____ Front Clearance
2. ____ Side Clearance
3. ____ Back Rake
4. ____ Side Rake
5. ____ Side Cutting Edge
6. ____ End Cutting Edge

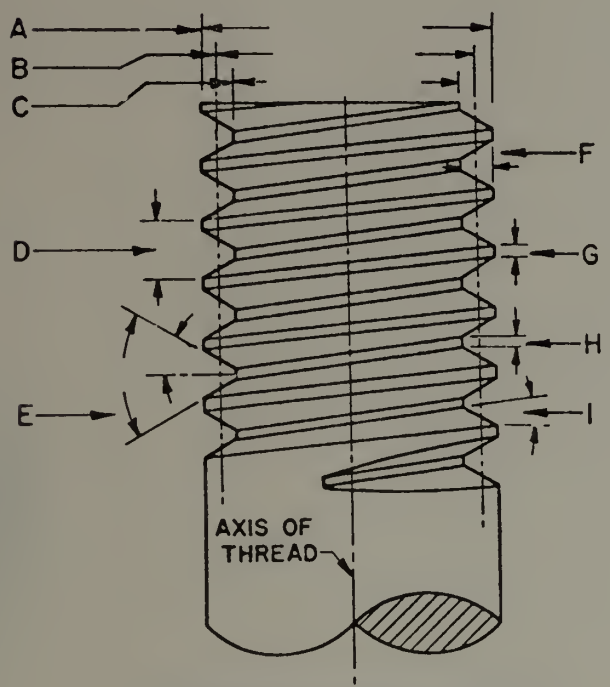
MATCHING: 106

Match the following thread terminology with their appropriate meanings.

Terms	Meanings
_____1. Major diameter	A. Distance from a point on one thread to a corresponding point on the next adjacent thread
_____2. Minor diameter	B. Top surface adjoining the two sides of a thread
_____3. Pitch diameter	C. Distance a thread moves along its axis in one revolution
_____4. Pitch	D. Smallest diameter on a screw thread
_____5. Lead	E. Bottom surface adjoining the two sides of adjacent threads
_____6. Crest	F. Largest diameter on a screw thread
_____7. Root	G. Diameter of an imaginary cylinder that cuts a screw thread at a point where the width of the groove and thread is equal

IDENTIFICATION:

Note the lettered parts of the external screw thread pictured below. Place the given letter of each part in the blank preceding its proper name.



EXTERNAL SCREW THREAD

_____1. Helix angle

_____2. Root

_____3. Crest

_____4. Thread angle

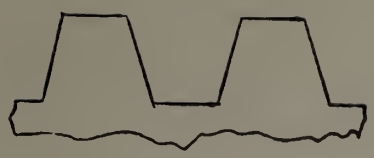
_____5. Major diameter

_____6. Minor diameter

_____7. Pitch

_____8. Pitch diameter

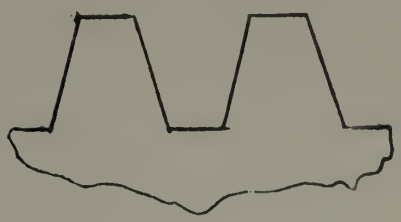
_____9. Thread depth



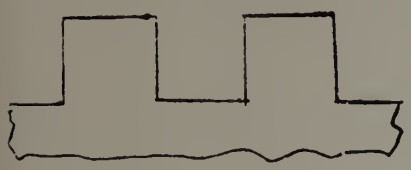
1._____

4._____

2._____



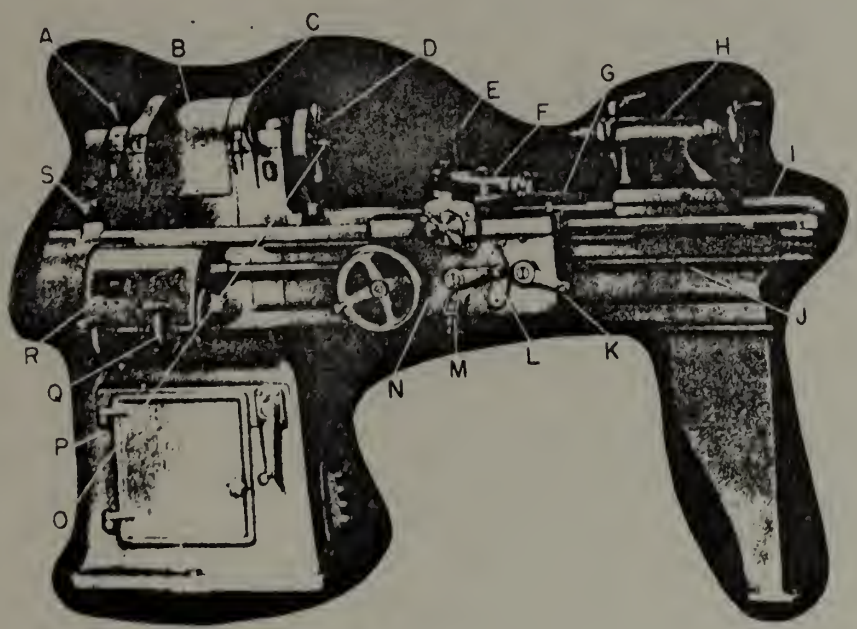
5._____



3._____

6._____

A. Whitworth
B. Brown and Sharpe worm
C. Acme
D. Unified
E. Square
F. National Pipe
G. Sharp Vee
H. American Natio nal



1. What type of standard toolholder permits machining close to the lathe chuck or faceplate?
   A. Right-hand
   B. Left-hand
   C. Straight
   D. Cutoff
   E. Threading

2. High-speec steel tool bits require a standard toolholder with a back rake angle of
   A. 0
   B. 6 1/2
   C. 12
   D. 16 1/2
   E. 21

3. The recommended nose radius for a general-purpose turning tool designed for moderate to light turning is
   A. 1/64"
   B. 1/32"
   C. 3/64"
   D. 1/16"
   E. 1/4"

4. The force applied to a cutting tool in a lathe comes from
   A. one direction
   B. two directions
   C. three directions
   D. four directions

5. The part of the lathe tool that does the actual cutting is the
   A. rake
   B. clearance
   C. cutting edge
   D. point

6. The lathe tool ground to produce a curved surface to size is called
   A. right-hand turning tool
   B. left-hand turning tool
   C. boring tool
   D. forming tool

7. A right-hand turning tool cuts toward the
   A. headstock
   B. tailstock
   C. back of the lathe
   D. front of the lathe

8. Most lathe cutting tools are made of
   A. carbon steel
   B. maganese steel
   C. high-speed steel
   D. cemented carbides

9. What is/are the external cylindrical machining operation(s) that may be performed on a lathe?
   A. Straight turning
   B. Taper turning
   C. Facing and shoulder turning
   D. Dnurling
   E. All of the above.

10. When the tool travels along the work parallel to the lathe bed, it is referred to as what kind of feed?
    A. Cross
    B. Longitudinal
    C. Radial
    D. End
    E. Tangential

11. The feeding and threading mechanism includes three basic components; the end gear train, the quick change gear box, and the
    A. tailstock and hand wheel
    B. step cone pulley
    C. bull gear and lock pin
    D. carriage and apron assembly
    E. back gear and reversing lever

12. The part of the carriage assembly that may be set at any angle is called the
    A. tool post
    B. cross slide
    C. compound rest
    D. halfnut lever
    E. feed change lever

13. The effective angle of side clearance or side relief should not be more than
    A. 1 deg.
    B. 6 deg.
    C. 12 deg.
    D. 16 deg.

14. When turning steel, the tool bit should be set
A. 1/32" below center
B. on center
C. 1/32" above center
D. 1/16" above center

15. The front-relief or front-clearance angle for average work is
A. 2 deg.
B. 5 deg.
C. 10 deg.
D. 16 deg.

16. The most difficult part of the tool bit to grind is the
A. side relief
B. back rake
C. front radius
D. side rake

17. The tool bit is held in the tool-holder at an angle of
A. 5 to 9 deg.
B. 10 to 15 deg.
C. 16 to 20 deg.
D. 21 to 26 deg.

18. The point of an American National thread-cutting tool is ground to an angle of
A. 29 1/2 deg.
B. 30 deg.
C. 60 deg.
D. 70 deg.

19. Cutting speed is expressed in
A. revolutions per minute
B. revolutions per foot
C. inches per minute
D. feet per minute

20. Work held between centers of a lathe is driven by
A. chuck
B. a dog
C. a mandrel
D. the dead center

21. In order that the layout lines on a finished surface may be seen, prepare the surface of the shaft with
A. white lead
B. lamp black
C. dykem blue
D. oil

22. When centering, feed the work into the drill by
A. turning the headstock
B. turning the tailstock handwheel
C. moving the carriage
D. using the automatic feed

23. Universal chucks in good condition will hold work accurately to within
A. .0002" or .0003"
B. .002" or .003"
C. .020" or .030"
D. .040" or .050"
E. .200" or .300"

24. The collet chuck is used mainly for production and precision holding of small work. Each collet is marked with the size it can hold. What is the maximum and minimum that one can vary from this size before danger of springing the collet is possible?
A. no variation
B. .001"
C. .002"
D. .003"
E. .004"

25. The commonly used chuck which permits the most rapid centering of cylindrical stock is the
A. universal type
B. spindle type
C. independent type
D. collet type
E. step and closure type

36. Each line on the graduated micrometer collar of the cross-feed screw is usually equal to
A. 0.0001 in.
B. 0.001 in.
C. 0.0002 in.
D. 0.005 in.

37. Holding a piece in a 3-jaw chuck for facing eliminates the
A. centering operation
B. use of the center rest
C. cutting-off operation
D. use of the follower rest

38. When facing, place the point of tool
A. at the center of the work
B. a little below the center
C. a little above the center
D. anywhere

39. The tool used for facing is a
A. flat-nose tool
B. radius tool
C. side tool
D. parting tool

40. When the tail of the dog is placed in the faceplate slot, it should
A. wiggle in the slot
B. be tight in the slot
C. be a drive fit
D. touch the bottom of the slot

41. In straight turning, the tool is set
A. exactly on the center of the work
B. 1/16 in. below the center
C. 1/8 in. below the center
D. at 30 deg. to the center

42. When the cross slide is moved into the work 0.010 in., the diameter of the piece is reduced by
A. 0.010 in.
B. 0.020 in.
C. 0.040 in.
D. 0.060 in.

43. If, when turning work held between centers, the job tapers smaller on the headstock end
A. adjust the tailstock away from yourself
B. adjust the tailstock toward yourself
C. take a smaller cut
D. reverse the feed

44. When stopping the lathe at the end of a cut to take a measurement, first
A. shut off the power
B. throw out the clutch
C. move the cross-feed handle back
D. throw out the feed

45. When turning work to a shoulder
A. feed by hand for the entire length of the piece
B. use the automatic feed for the entire length of the piece
C. use the automatic feed to within 1/16 in. and finish by hand
D. feed from the shoulder to the end of the piece

46. When turning to a square corner, grind the tool
A. round-shaped
B. more than 90 deg.
C. less than 90 deg.
D. V-shaped

47. Large fillets are best roughed out with a
A. forming tool
B. sharp V tool
C. round-nose tool
D. cut-off tool

48. When starting to knurl a turned surface,
A. press the knurls lightly against the surface
B. force the knurls into the surface with hand pressure
C. feed the knurls into the surface with the automatic feed
D. reverse the automatic cross-feed

49. The preferred method of holding work for knurling is
A. in a 3-jaw chuck
B. in a 4-jaw chuck
C. between centers
D. in a drill chuck

50. The center holes of a mandrel have an angle of
A. 45 deg.
B. 50 deg.
C. 60 deg.
D. 75 deg.

51. A cut-off tool and a parting tool are names given to
A. denote difference in sizes
B. tools used in different machines
C. the same tool
D. different lathe tools

52. The widest part of the cut-off tool is
A. the bottom
B. the center
C. the cutting edge
D. 1/16 in. below the top

53. The front-clearance angle of a cut-off tool for steel is approximately
A. 30 deg.
B. 20 deg.
C. 10 deg.
D. 5 deg.

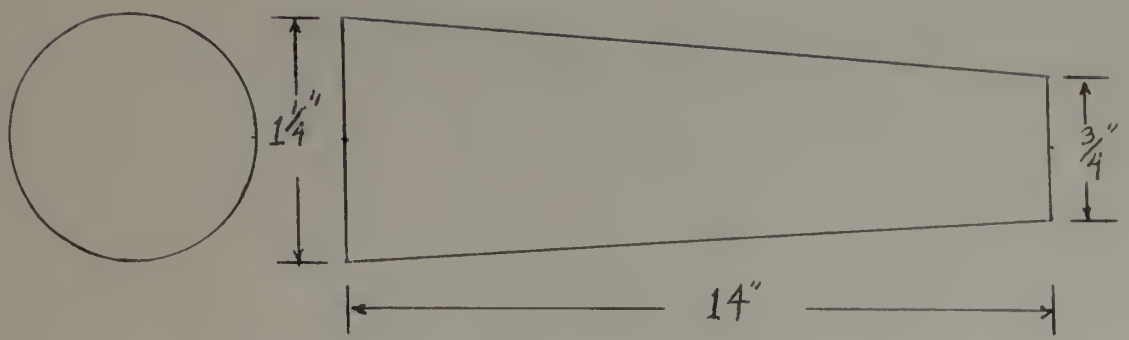
54. The cut-off tool requires
A. clearance on both sides
B. clearance on the left side only
C. clearance on the right side only
D. no side clearance

55. To sharpen a cut-off blade, grind it
A. on top
B. on the left side
C. on the right side
D. on the front

56. The cut-off tool should be set
A. slightly above the center
B. slightly below the center
C. on dead center
D. 1/16 in. below center

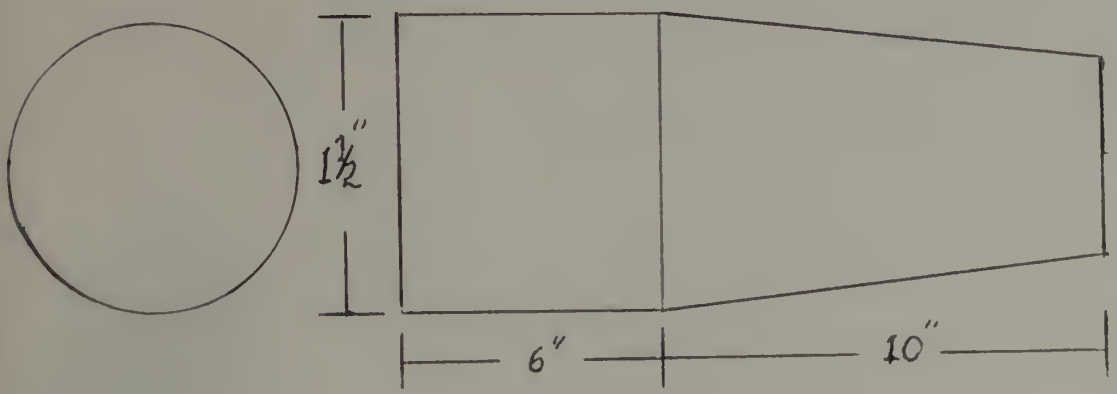
57. Calculate the setover for turning the taper in the figure below.

A. 1/8"
B. 3/16"
C. 1/4"
D. 5/16"
E. 3/8"



58. Determine the setover for turning a 1/2" per foot taper on the workpiece shown in the figure below.

A. 1/3"
B. 1/2"
C. 2/3"
D. 3/4"
E. 7/8"



MATCHING:

Select the correct description for each of the calipers in the figures below. Put the letter of the correct answer in the blanks under the figures.

Answers

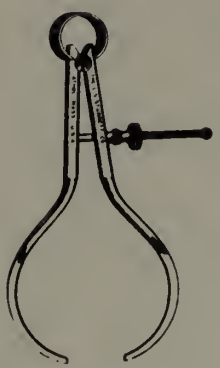
A. Spring joint - outside
B. Firm joint - outside
C. Spring joint - inside
D. Firm joint - inside

_____1.

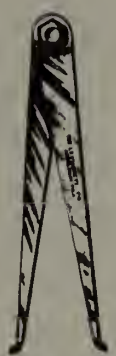
_____4.

_____2.

_____5.



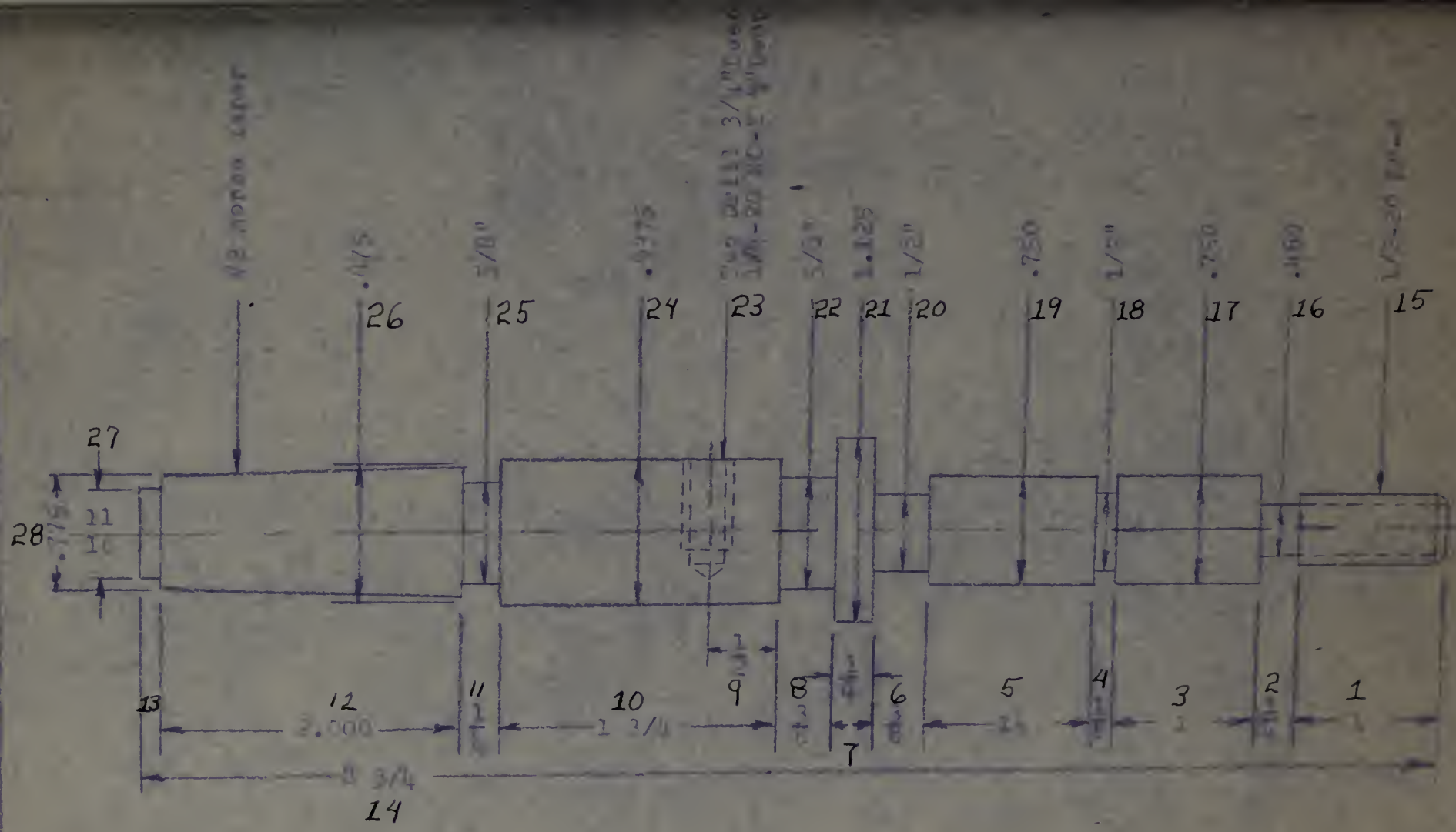
_____3.



_____6.

APPENDIX E

Performance Test



Scale 1-1

Clearances unless otherwise specified.
Decimal Dimension ± .005
Fractional Dimension ± 1/64"
Angular Dimension ± 1/2 Degree

115

APPENDIX F

Definition of Terms

DEFINITION OF TERMS

Related - Students enrolled in a Vocational course are scheduled for part of their in-school time in a related classroom. This is where they receive instruction in those aspects of math, science and history that applies to their chosen vocation.

Shop - The word shop designates the physical area where students apply the knowledge they have gained in the related classroom. It also designates the setting where students receive further instruction in the physical manipulative skills that are required to perform an operation or to complete a job. It is an area that sometimes approximates the actual working conditions and equipment that the students will experience in their chosen vocation.

Performance Objective - The author has chosen the term Performance Objective for it seems to communicate to the Vocational Instructors in the field what is needed as an objective. The use of Performance Objective in this proposal is to designate an objective that contains the Performance that a student is seeking to acquire, the Conditions under which he will be expected to demonstrate that performance, and the extent to which he should be proficient in demonstrating his competence.

Criterion Reference Test - In this proposed study, tests will be developed in which test items are correlated to the Performance Objectives of the course. Correct responses on the test items will satisfactorily meet the objectives with which those items are correlated.

Study Team - The study team consists of one machine shop related teacher, one lab teacher, and the author of the study.

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